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VELA NETWORK EVALUATION AND AUTOMATIC PROCESSING RESEARCH

David G. Lambert, et al

Texas Instruments, Incorporated

Prepared for:

Air Force Technical Applications Center Advanced Research Projects Agency

9 December 1974

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# SEISMIC DETECTION AND DISCRIMINATION CAPABILITIES OF THE VERY LONG PERIOD EXPERIMENT - FINAL REPORT

# TECHNICAL REPORT NO. 7 VELA NETWORK EVALUATION AND AUTOMATIC PROCESSING RESEARCH

Prepared by D. G. Lambert, A. I. Tolstoy, and E. S. Becker

TEXAS INSTRUMENTS INCORPORATED

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Prepared for

AIR FORCE TECHNICAL APPLICATIONS CENTER AFTAC Project No. VELA T/4705/B/ETR Alexandria, Virginia 22314

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VLPE Detection Levels	13Q/13R Ratios					
VLPE Discrimination						
This report presents the final results of the continued evaluation of the capability of the single Very Long Period Experimental (VLPE) station, the VLPE network, and the VLPE-ALPA-NORSAR combined network to detect and discriminate between presumed underground explosions and shallow earthquakes located in Eurasia. Further, we present a summary of the important results pertaining						
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#### 20. continued

to the studies of long-period earth noise, and the application of matched filters and the Three-Component Adaptive processor to VLPE data. This evaluation was conducted by Texas Instruments Incorporated at the Seismic Data Analysis Center over the period 1 November 1973 to 30 November 1974.

#### ABSTRACT

This report presents the final results of the continued evaluation of the capability of the single Very Long Period Experimental (VLPE) station, the VLPE network, and the VLPE-ALPA-NORSAR combined network to detect and discriminate between presumed underground explosions and shallow earthquakes located in Eurasia. Further, we present a summary of the important results pertaining to the studies of long-period earth noise, and the application of matched filters and the Three-Component Adaptive processor to VLPE data. This evaluation was conducted by Texas Instruments Incorporated at the Seismic Data Analysis Center over the period 1 November 1973 to 30 November 1974.

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## SECTION I INTRODUCTION

This report presents a final evaluation of the discrimination and detection capabilities of the Very Long Period Experiment (VLPE) single stations, the VLPE network, and the VLPE-ALPA-NORSAR combined network. Further, we present a summary of the important results pertaining to the studies of long-period earth noise, and the application of matched filters and the Three-Component Adaptive processor to VLPE data. The purpose of the VLPE is to improve discrimination and detection capabilities with the use of a network of high-gain, long-period digital seismographs at various locations throughout the world.

The VLPE instrumentation has been described in detail by Pomeroy, et al., (1969), and studies of the data from the station at Ogdensburg, New Jersey have been presented by Savino, et al., (1971). A general review of eight of the long-period stations with their capabilities and the application of various filter techniques on digitally recorded data have been given by Savino, et al., (1972). Two reports, one by Benno (1972) and the other by Harley (1972), have presented a preliminary evaluation of the VLPE network.

A more recent report by Lambert and Becker (1973) presented the preliminary detection and discrimination capabilities of nine VLPE stations, the VLPE network, and the VLPE-ALPA-NORSAR combined network. Further, Lambert, et al., (1973) expanded the data base and presented a preliminary evaluation for eleven VLPE stations and various VLPE networks.

The data base for this report includes and expands upon the VLPE data base given in the latter report and now consists of 1280 Eurasian events for a total of 5962 event-station combinations. This large data base covers the following periods of time: 1 January - 20 March, 1 June - 31 August, 1 November - 31 December of 1972, and 1 January - 30 April, 1973. The ALPA and NORSAR data base was also expanded to cover the corresponding 1280 Eurasian events for a total of 2520 event-station combinations. Those data are used in this report and will be published by Strauss and Laun (1975).

The specific goals of this study are:

- Discrimination capability of single VLPE stations, the VLPE network, and the VLPE-ALPA-NORSAR combined network as functions of M<sub>s</sub> versus m<sub>b</sub>, Love to Rayleigh wave amplitude ratios, and discrimination based on negative evidence.
- Maximum likelihood estimates of detection based on m<sub>b</sub> for VLPE single stations, the VLPE network, and the VLPE-ALPA-NORSAR combined network.
- Maximum likelihood estimates of detection for VLPE single stations and the VLPE network based on M<sub>S</sub> for surface-wave detections at ALPA and NORSAR, and ALPA and NORSAR M<sub>S</sub> values corrected for station-path effects.

In Section II, the data base is presented in detail with a complete listing of all event parameters, data, and the calibration curves for all VLPE stations. Section III reports the evaluation of discrimination capabilities of the VLPE single stations, the VLPE network and the VLPE-ALPA-NORSAR combined network. In Section IV we present the detection capabilities of the VLPE single stations and in Section V the VLPE network and the VLPE-ALPA-NORSAR combined network. In this report, we discuss the discrimination capabilities before the detection capabilities since some of

the discriminant results are utilized in Sections IV and V. Finally, conclusions based on this analysis and a brief summary of the important results from the studies of earth noise and the application of the Three-Component Adaptive processor and matched filters to VLPE data, are given in Section VI.

### SECTION II DATA BASE

#### A. GENERAL DESCRIPTION

The data base for the signal analysis utilizes all available VLPE digital recordings for Eurasian events during the following time periods: January 1 - March 20, June 1 - August 31, November 1 - December 31 of 1972, and January 1 - April 30, 1973. Station data were available from Australia (CTA), Thailand (CHG), Alaska (FBK), Spain (TLO), Israel (EIL), Norway (KON), New Jersey (OGD), Hawaii (KIP), New Mexico (ALQ), Bolivia (ZLP), and Japan (MAT) for varying portions of the event time periods indicated above. Station tapes that were available for processing are listed in Table II-1. The geographic location of each station is given in Table II-2 and shown in Figure II-1. Further, Figure II-1, shows 50° radii circles about each station and the seismic source regions.

Figure II-2 presents the distribution of event-station combinations as a function of distance. These data show some evidence of two main distance ranges for the event-station combinations, one at less than  $55^{\circ}$  and the other at distances greater than  $55^{\circ}$ .

Attempts were made to process and analyze all available data. Table II-3 summarizes the number of events processed at each station. A considerable amount of data was lost the first half of 1972 (January through June) due to operational and recording problems (see Lambert and Becker, 1973, for details). The quality of data improved significantly during the latter part of 1972.

TAPLE II-1

# VLPE DIGITAL DATA AVAILABLE AT SDAC (PAGE 1 OF 2) \* Test Tape

												]_
MAT								7 - A				22-31
ZLP						•					4-24 26-30	1-31
ALQ			31	1-30	1-19	1-30	1-31	1-7	1-31	1-31	1-5	1-31
KIP			15-31	1-30	1-11	1-30	1-31	1-31	1-30	1-31	1-30	1-31
OGD	1-31	1-29	1-14	6-30	1-4	1 6-30	1-31	1-21 24-28 30-31	1-21 29-30	1-6	7-10 18-27 30	1-31
KON	1-31	1-29	1-3	1-12	1-31	1-30	1-31	1-31	1-30	1-31	1-30	1-31
EIL		24-25	10-31	1-5	5-31	1-30	1-31	1-31	1-2	11-23		3-31
TLO	1-31	1-24	1-28	1-26	11-26	10-30	1-31	1-31	1-30	1-26		
FBK	1-31	1-29	1-31	1-25								*
CHG	1-31	1-29	1- <del>4</del> 15-26	1-27	30-31	1-12		17-18 25-30	22-28		3-30	1-31
CTA		19-20*		24-30	1-31	1-30	1-31	1-31	1-30	1-31	1-30	1-7
Year 1972	January	February	March	April	May	June	July	August	September	October	November	December

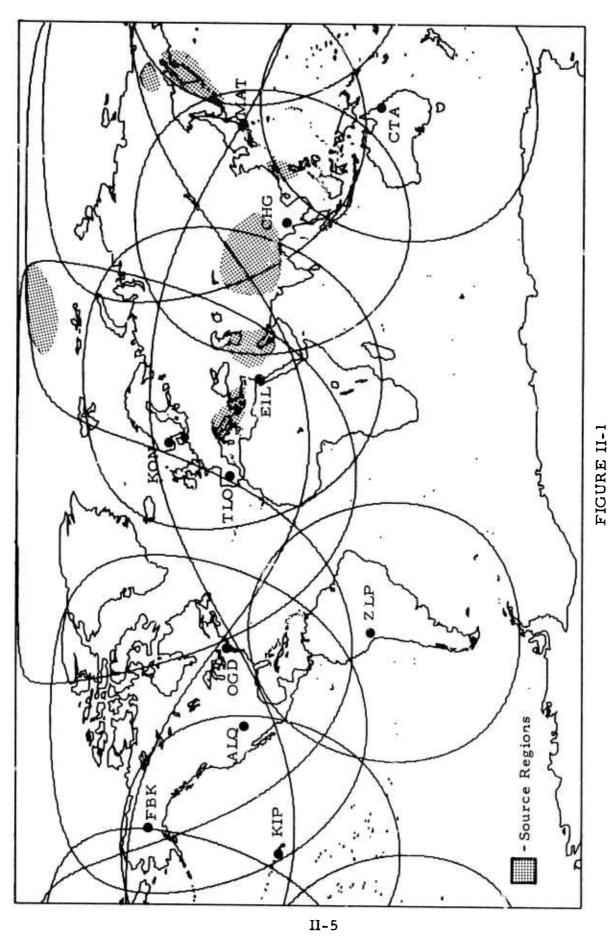
TABLE II-i VLPE DIGITAL DATA AVAILABLE AT SDAC (PAGE 2 OF 2)

P - 1 COldwood 72

MAT	11-31	1-14	1-19	1-22	1-31	11-20
ZLP	1-24	1-28	1-31	1-10		28-30
ALQ	1-31	1-28	1-21	8-30	1-24	19-30
KIP	1-31	1-28	1-13	1-30	2-31	1-19
OGD	1-31	1-22	2-31	1-30	1-11	1-30
KON	1-18	1-28	1-15	1-2	1 19-31	1-30
EIL	1-13 15-31	1-10	1-15	13-27		
TLO	14-15 29-31	1 12-13 28	1 15-16 30-31	1-6	1-8	1-25
CHG	1-31	1-2	7-28	1-30	1-29	
CTA		19-28	1-31	1-30	1-31	1-30
Year 1973	January	February	March	April	May	June

TABLE II-2
VERY LONG PERIOD EXPERIMENT (VLPE)
STATIONS AND LOCATIONS

Station	Designator	Latitude	Longitude
Charters Towers, Australia	CTA	20.09 S	146.26 E
Chiang Mai, Thailand	CHG	18.79 N	98.98 E
Fairbanks, Alaska	FBK	64.90 N	148.01 W
Toledo, Spain	TLO	39.86 N	4.02 W
Eilat, Israel	EIL	29.55 N	34.95 E
Kongsberg, Norway	KON	59.65 N	9.59 E
Ogdensburg, New Jersey	OGD	41.07 N	74.62 W
Kipapa, Hawaii	KIP	21.42 N	158.02 W
Albuquerque, New Mexico	ALQ	34.94 N	106.46 W
La Paz, Bolivia	Z LP	16.50 S	68.13 W
Matsushiro, Japan	MAT	36.54 N	138.21 E



MAP OF VLPE STATIONS AND CIRCLES AROUND EACH SITE WITH RADII OF 50° DISTANCE

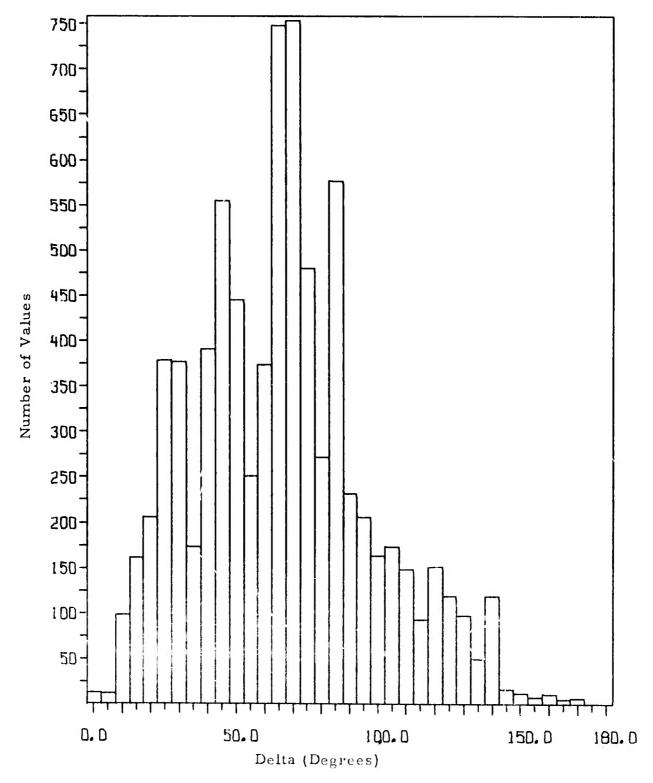


FIGURE II-2

NUMBER OF STATION-EVENTS AS A FUNCTION

OF DELTA (DEGREES)

TABLE II-3a

## SUMMARY OF VLPE EVENTS PROCESSED FOR 1 JANUARY 1972 - 30 APRIL 1973

Station Number	Station Code	Events Processed	Events Detected	Events Not Detected	Mixed Events	System Clipping Spikes, Etc.
1	CTA	594	102	312	122	58
2	CHG	653	201	260	137	55
3	FBK	298	67	186	40	5
4	TLO	539	138	247	106	48
5	EIL	584	133	263	65	123
6	KON	817	214	379	156	68
7	OGD	371	69	124	49	129
8	KIP	803	179	325	164	135
9	ALQ	586	79	267	110	130
10	ZLP	396	29	80	46	241
11	MAT	321	116	119	32	54
TOTALS		5962	1327	2562	1027	1046

TABLE II-3b
ALPA AND NORSAR SUMMARY

12	ALPA	1243	531	339	223	150
13	NORSAR	1277	599	317	125	236
TOTALS		2520	1130	656	348	386

A total of 1280 Eurasian events or 1253 earthquakes and 27 presumed explosions are tabulated in Appendix II-A. Information for each event includes the date, origin time, epicenter location, m, the seismic source region, and a code indicating the source bulletin for the event. Event numbers 116, 260, 339, 456, 626, 652, 672, 679, 699, 755, 797, 865, 1236, and 1266 through 1280 refer to presumed explosions and aftershocks. Further, events 1266 through 1280 occurred after 30 April, 1973 but during 1973.

#### B. STATION CALIBRATIONS

The instrument calibration and system response data were originally supplied by Lamont Doherty Geological Observatory and from about mid-year of 1972 to the present time, by the Albuquerque Seismological Center, Environmental Research Laboratories of NOAA. These data for all of the VLPE stations are shown in Appendix II-B.

#### C. SIGNAL ANALYSIS

In order to evaluate the capability of each station to detect and discriminate by surface waves (both Rayleigh and Love), the horizontal instruments were rotated analytically to form vertical, transverse, and radial components. At each station the horizontal seismograms were rotated assuming that the system responses of these instruments were matched. This was true at most stations, but not all (see Appendix II-B), hence some of the rotations contain this source of error. However, various authors have shown that lateral structural variations along the propagation path can cause large deviations in the expected direction of the arriving surface-waves. These path effects can result in greater inaccuracies than those due to errors in the rotation process.

The seismograms were filtered in the frequency domain with a filter having a bandpass of 18 to 42 second periods, and then transformed to the time domain for visual analysis that included detection of surface-wave phases and amplitude and period measurements. The criteria for picking surface-wave signals has been previously described by Lambert and Becker (1973).

The results of the basic VLPE analysis are tabulated in Appendixes II-C through II-M for each station with appropriate comments. A total of 5962 event-station combinations are listed; many events were recorded at several stations.

These tables (Appendixes II-C through II-M) include epicenter-station distance (degrees), m, M at 20 second period, M at 30 second period, M at 40 second period when possible, Love wave/Rayleigh wave amplitude ratios when possible, and appropriate comment in the "comment" column. The first two numbers in this column are comment key numbers, and the third and fourth columns are the station numbers. The keys are as follows:

- (1) Signal detected
- (2) No signal detected
- (3) Mixed signals
- (5) System malfunction, clipping, spikes, erratic static gain variations, etc.
- (6) Threshold event (i.e., questionable detection due to low S/N).

The column labeled Event No. identifies the event for cross referencing with the epicenter data listed in Appendix II-A. Event numbers missing from any given station appendix indicates that either no data were available or that data available were not usable. Totals for the number of events detected, not detected and mixed, and for system malfunction for each station are given in Table II-3a.

All detections (comment key numbers 1 and 6) are included in the detection totals for each station.

In Table II-3b a similar summary for the ALPA-NORSAR is presented. However, this data base will be published separately by Strauss and Laun (1975).

The detection capability based on the presence of Love waves was not attempted. Erratic static gains were encountered from time to time on the horizontal components at most stations and especially during the first half of 1972. However, Love wave amplitudes were measured when possible.

We reviewed the mb determinations for all events where possible to determine whether any regional or near regional mb values were included in the average mb. It was found that the PDE lists several events from Italy where near station values of mb had been included. The reported mb values for these events were from 0.2 to 0.6 magnitude units larger than the average of the teleseismic values. We accepted only the teleseismic mb values as valid estimates. Those values of mb which were changed, are recorded and noted with an asterisk in Appendixes II-C through II-M. The original mb values are listed in Appendix II-A. All analysis in this report involving the mb parameter utilize the revised teleseismic mb values.

# SECTION III VLPE DISCRIMINATION CAPABILITY

#### A. INTRODUCTION

This section presents the capability of the single VLPE stations, the VLPE network, and the VLPE-ALPA-NORSAR combined network to discriminate between presumed underground explosions and shallow earthquakes located in Eurasia.

In attempting to assess the discrimination capabilities of the VLPE stations and networks, we faced several important experimental problems:

- The lack of reliable station data (see Section II) limits both the quantity and quality of the surface-wave measurements obtainable from any given station.
- A fixed set of VLPE stations recording reliable seismic data was not available.
- The event ensemble is comprised of events from several large seismic regions in Eurasia, each of which includes many different source mechanisms and propagation paths. Consequently, significant radiation pattern and path effects are present.

  Lambert (1974) discusses these effects observed by several VLPE stations from several source regions.
- Few presumed explosions were available for a direct comparison with earthquakes.

The experimental realities prevented the assessment of specific station-region and network-region discrimination capabilities. We attempted to circumvent these problems primarily by expanding the data base (see Section II for details) for the purpose of obtaining average capability estimates. Specifically, the determination of M versus m relationships for a large number of earthquakes from all regions in Eurasia tends to average source and path effects and provides a basis upon which to compare with other such estimates.

Further, meaningful comparison of observed LQ/LR ratios to average theoretical values and comparison of average observed LQ/LR ratios per event from central Asia to the few events observed from east Kazakh were achieved within this framework.

In part B of this section we discuss  $M_s$  versus  $m_b$  and the discrimination capability for single VLPE stations. Part C discusses  $M_s$  versus  $m_b$  for the VLPE network and the VLPE-ALPA-NORSAR combined network. Part D includes LQ/LR ratios and compares these to theoretical values. Part E discusses the negative evidence concept. Part F summarizes the results of this section.

## B. M<sub>s</sub> VERSUS m<sub>h</sub> FOR VLPE STATIONS

For the analysis of the single VLPE station M  $_{\rm s}$  - m  $_{\rm b}$  discrimination capabilities, several additional problems are present.

- The only source of m<sub>b</sub> estimates are the bulletins from which the Eurasian event ensemble was compiled. Thus, we have no estimates of this parameter at individual VLPE stations.
- The smaller the event, the smaller the signal-to-noise ratio (S/N) at each station. Hence, the M<sub>s</sub> estimates are biased high and will in turn bias the M<sub>s</sub>-m<sub>b</sub> relationship.

- Theoretical and observed M<sub>s</sub> m<sub>b</sub> relationships are not linear over a large range of magnitudes.
- Surface-wave magnitude (M<sub>s</sub>) is period dependent. In most cases for this analysis, M<sub>s</sub> determined at 20 seconds period is the largest value. However, in some instances M<sub>s</sub> determined at 30 seconds period is either the largest or the only M<sub>s</sub> measurable.

We have attempted to nullify and circumvent these problems in the following ways:

- Average teleseismic estimates of m<sub>b</sub> are utilized when possible (Section II). This should minimize bodywave radiation and path effects to some extent. However, many small events were detected at only LASA and NORSAR, and only those station m<sub>b</sub> estimates are available.
- We partially compensate for the bias due to low S/N by setting a magnitude threshold (m<sub>b</sub> = 4.2) above which we determine the M<sub>s</sub>-m<sub>b</sub> relationship. Since this threshold corresponds to the 50 percent detection threshold of the VLPE network (Lambert, et al., 1973), some bias remains in the M<sub>s</sub> estimates.
- Theoretical earthquake source spectra show that for
   4.2 ≤ m<sub>b</sub> ≤ 5.5, we should expect a linear relationship between
   M<sub>s</sub> and m<sub>b</sub> (Aki, 1967, and Tsai, 1972). Thus, upper limits are also imposed on the analysis.
- The method used to determine the best linear fit to the M<sub>s</sub>- m<sub>b</sub> data considers both parameters to be independent of each other and minimizes the distances normal to the line and the data points (for specific details see Lambert, et al., 1973).

Finally, since M is period dependent, we used only M values determined at 20 seconds period.

The surface-wave magnitude is defined as (Harley, 1972):

$$M_s = \log A/T + \log \Delta + 1.12$$

where:

M<sub>e</sub> = surface-wave magnitude,

A = Peak-to-peak displacement in  $m\mu$ ,

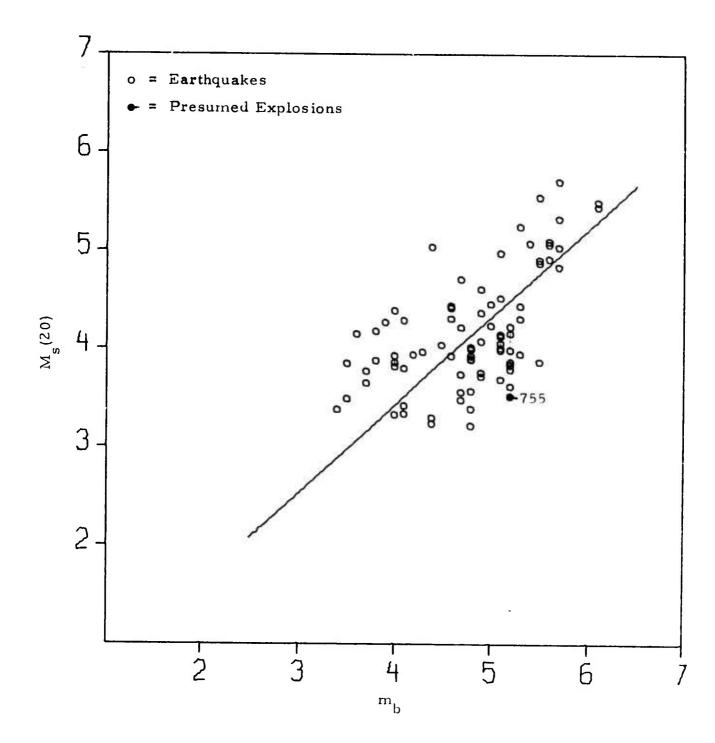
T = period in seconds for A,

 $\Delta$  = epicentral distance in degrees.

Figures III-1 through III-13 show  $M_s$  (T = 20 seconds) versus  $m_b$  for CTA, CHG, FBK, TLO, E1L, KON, OGD, KIP, ALQ, ZLP, MAT, ALPA, and NORSAR. Best fit straight lines are shown in these figures, estimated over the full range of magnitudes for the earthquake populations. These lines are described in Table III-1 in the form  $M_s(20) = \alpha m_b + b$  along with the variance  $(\sigma^2)$  and the number of data points. The best linear fits for the restricted (R)  $m_b$  range  $(4.2 \le m_b \le 5.5)$  are also listed with corresponding information.

On first inspection of these figures, separation between presumed explosions and earthquakes is not distinct. However, on closer inspection of the stations which detect presumed explosions and show some overlap of the two populations, we find the following:

Events 755, 1273, and 1275 (detected at stations CTA, OGD, and ALPA) occurred in the Ural region. Marshall and Basham (1972) observed that the Ural presumed explosions were statistically closer to the earthquake population than to the explosion population. They compared them with a small group of regional earthquakes, and separation of the populations was clear. We observe that each presumed explosion was about



Characteristics

FIGURE III-1  $M_s$  VERSUS  $m_b$  AT CTA

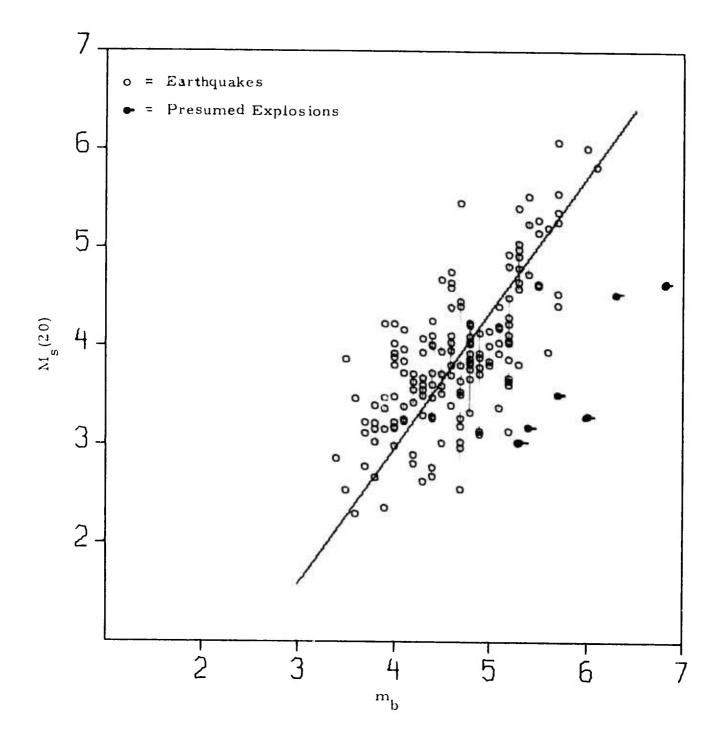


FIGURE III-2  $\label{eq:mb} \mathbf{M_{s}} \ \mathbf{VERSUS} \ \mathbf{m_{b}} \ \mathbf{AT} \ \mathbf{CHG}$ 

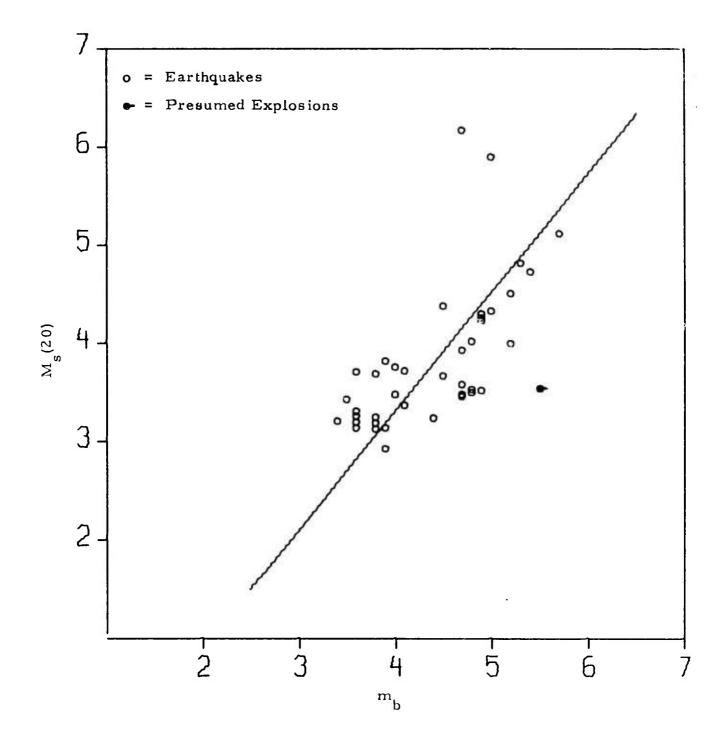


FIGURE III-3  $\mathbf{M_{s}} \ \mathbf{VERSUS} \ \mathbf{m_{b}} \ \mathbf{AT} \ \mathbf{FBK}$ 

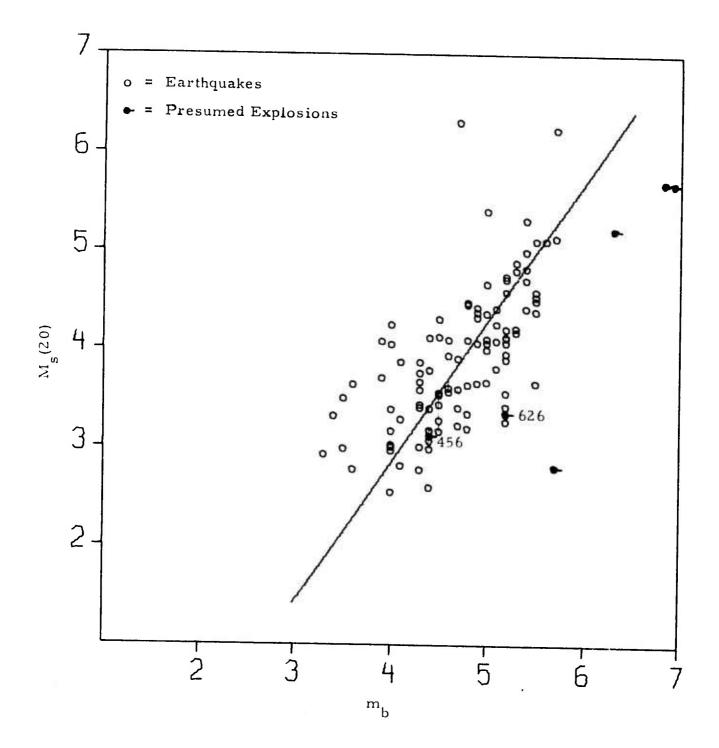


FIGURE III-4  ${
m M_{_S}}$  VERSUS  ${
m m_{_b}}$  AT TLO

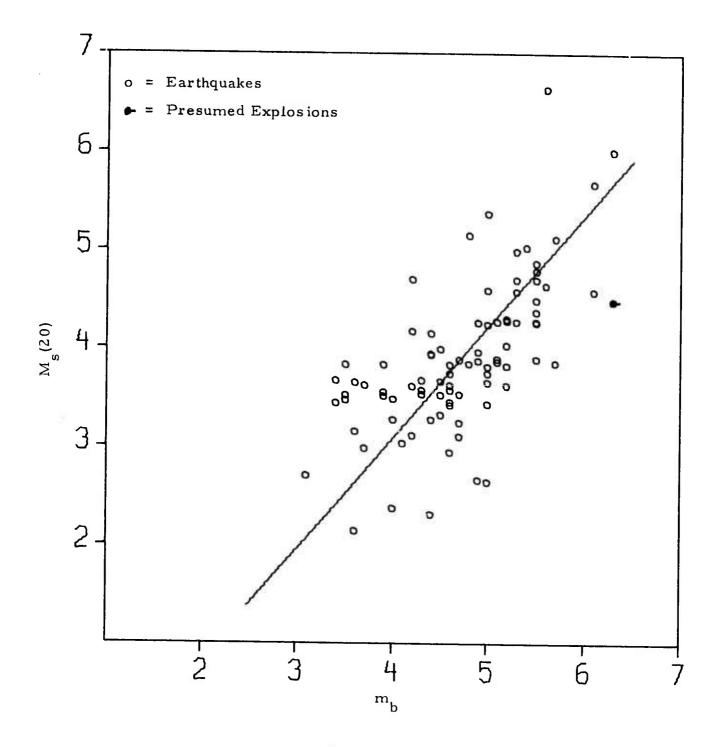


FIGURE III-5  ${
m M}_{
m S}$  VERSUS  ${
m m}_{
m b}$  AT EIL

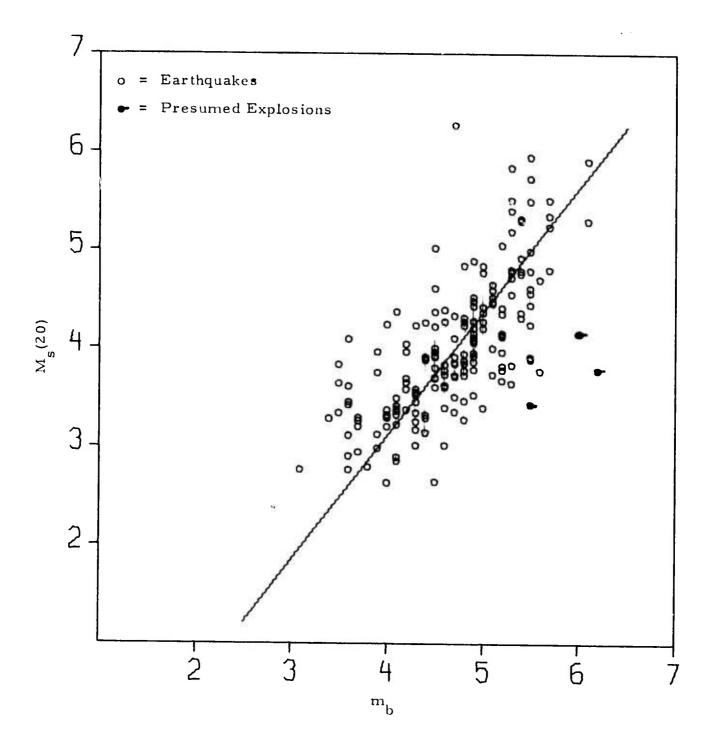


FIGURE III-6  ${\rm M_{_{S}}~VERSUS~m}_{\rm b}~{\rm AT~KON}$ 

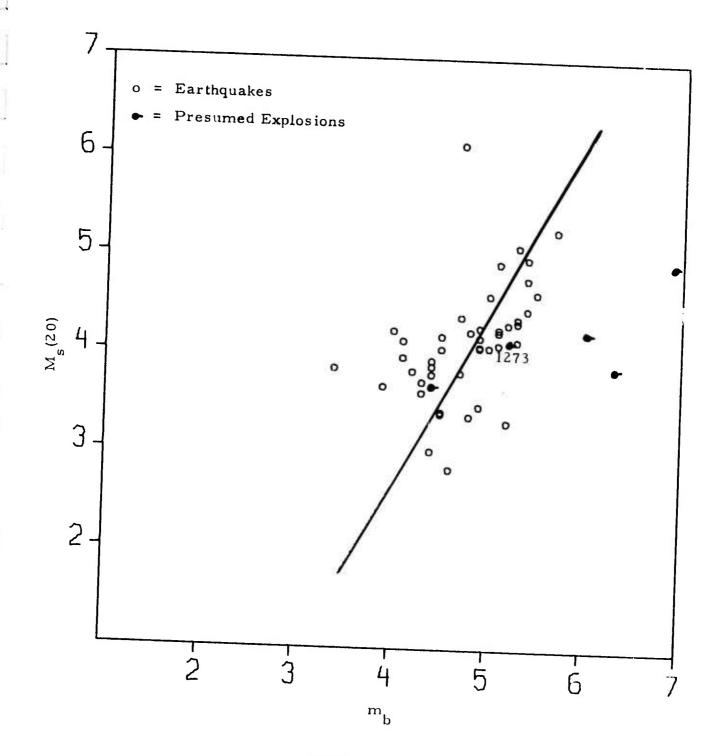


FIGURE III-7  $M_s$  VERSUS  $m_b$  AT OGD

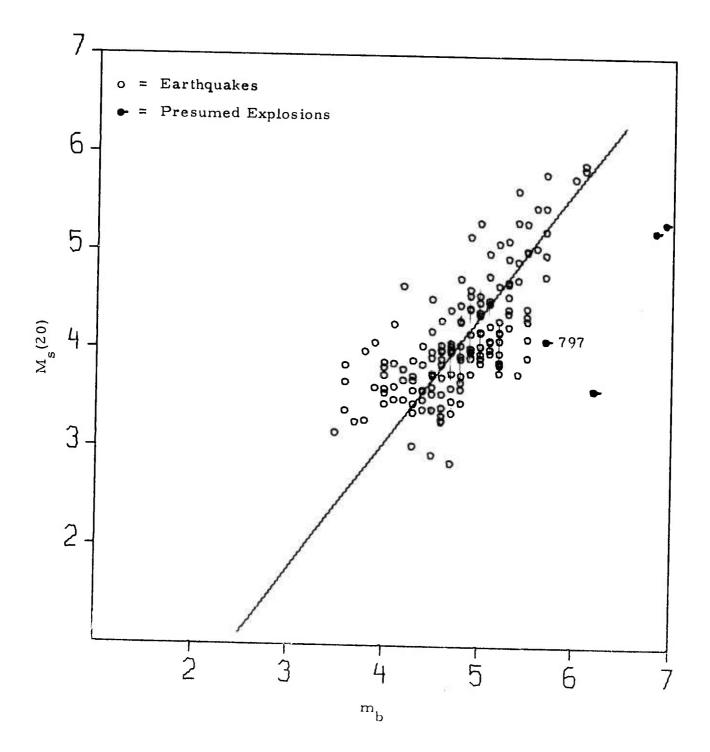


FIGURE III-8  ${
m M_{_S}}$  VERSUS  ${
m m_{_b}}$  AT KIP

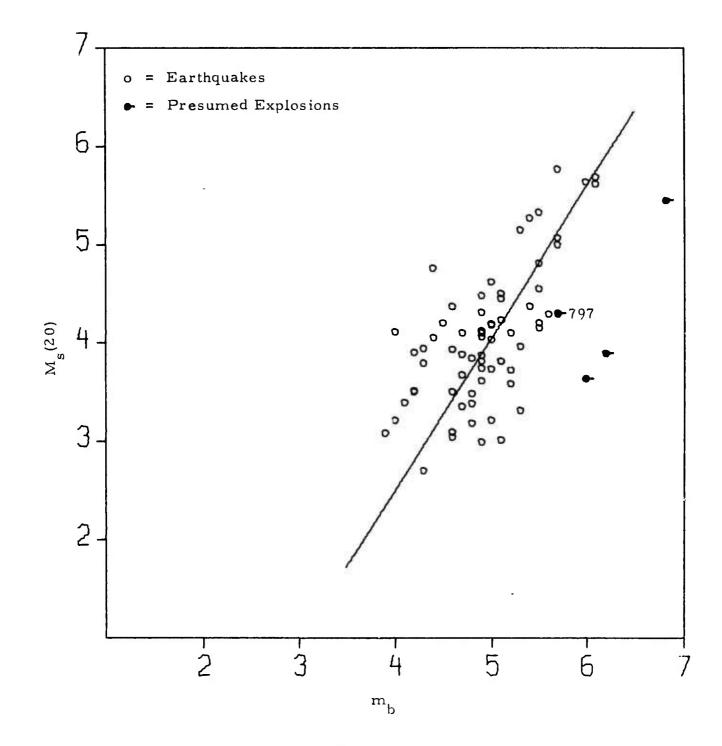


FIGURE III-9  $\label{eq:mb} \text{M}_{\text{S}} \text{ VERSUS m}_{\text{b}} \text{ AT ALQ}$ 

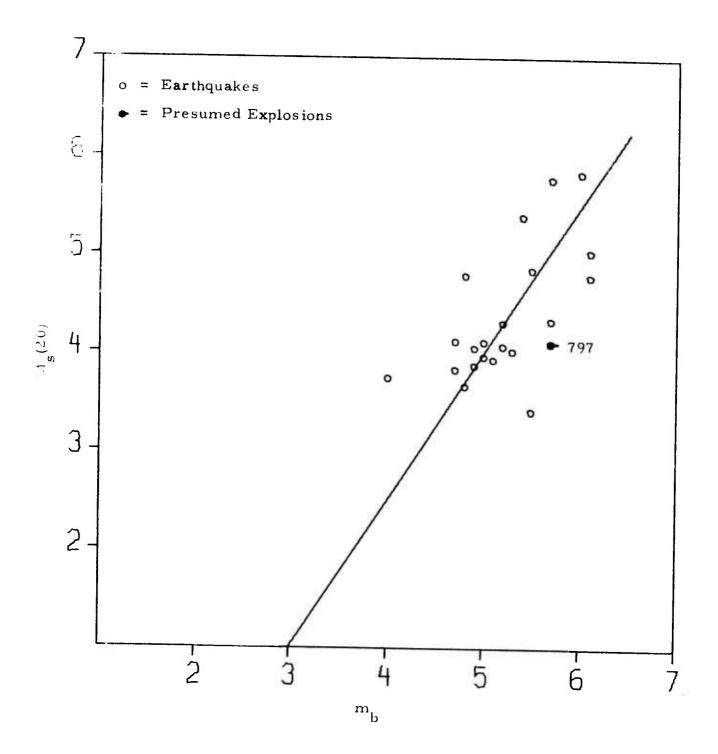


FIGURE III-10  $^{\rm M}_{\rm s}$  VERSUS  $^{\rm m}_{\rm b}$  AT ZLP

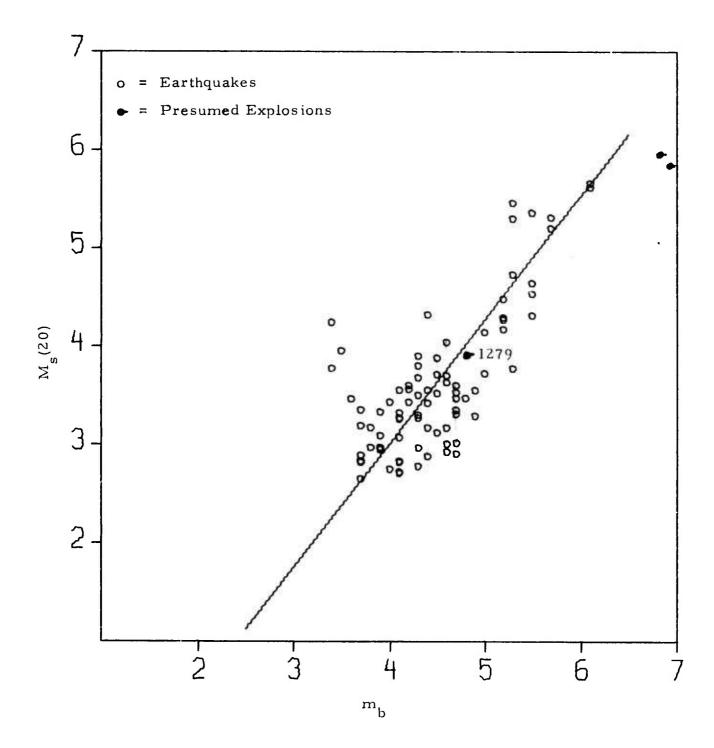


FIGURE III-11  ${
m M_{_S}}$  VERSUS  ${
m m_{_D}}$  AT MAT

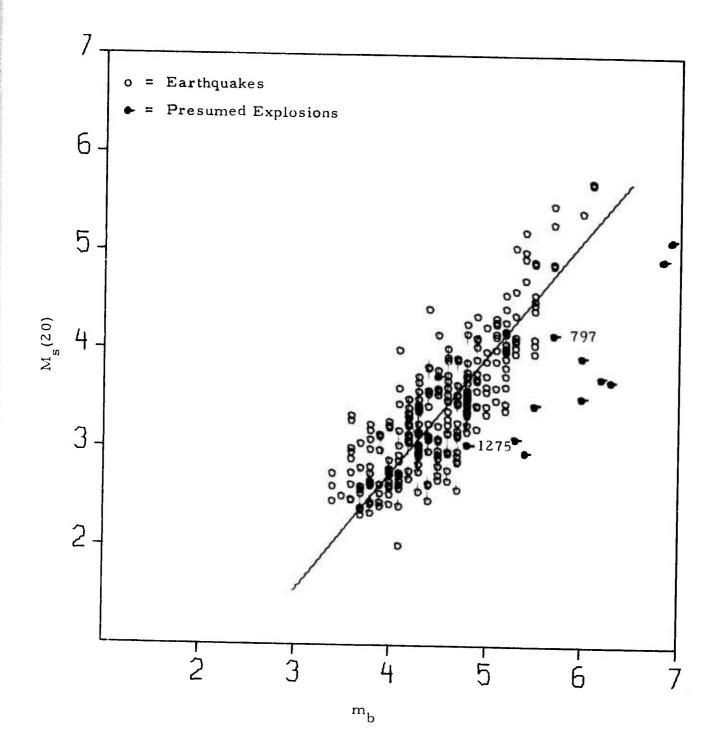


FIGURE III-12  ${
m M_{_S}}$  VERSUS  ${
m m_{_{_{\dot b}}}}$  AT ALPA

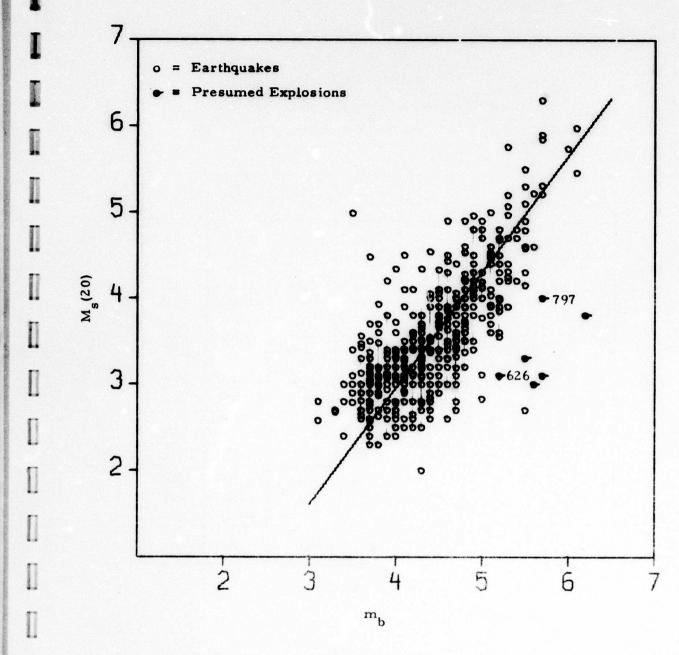


FIGURE III-13  ${
m M_{_{S}}}$  VERSUS  ${
m m_{_{b}}}$  AT NORSAR

Γ		T		T	T		
	Station	α	ь	$\sigma^2$		of Mass	
-					m b	Ms	n
	1	0.90	-0.17	0.17	4.81	4.16	85
1	1 (R)	-0.42	6.08	0.13	4.83	4.03	58
	2	1.38	2 50				
1	2 (R)	1.28	-2.58	0.14	4.68	3.90	161
	2 (10)	1.40	-2.12	0.15	4.74	3. 95	121
	3	1,21	-1.52	0.17	1 12	2 04	
1	3 (R)	1.09	-1.26	0.17	4.43	3.84	42
		,	1,20	0, 11	4.80	3.97	23
П	4	1.43	-2.88	0.15	4.73	3.89	110
1	4 (R)	1.24	-2.06	0.13	4.80	3.91	110
1	i				1,00	J. 71	86
1	5	1.14	-1.46	0.19	4.72	3. 91	89
	5 (R)	1.23	-2.06	0.12	4.86	3.93	57
						J. /J	) (
1	6	1.26	-1.94	0.15	4.71	4.00	186
	6 (R)	0.99	0.71	0.13	4.85	4.07	132
	7	, , ,					_
1	· ·	1.76	-4.40	0.24	4.82	4.08	46
L	7 (R)	0.95	-0.53	0.21	4.80	4.01	44

TABLE III-1  $\begin{array}{c} \text{VLPE STATION M}_{\text{S}} = m_{\overline{\text{b}}} \text{ RELATIONSHIPS} \\ \text{(PAGE 2 OF 2)} \end{array}$ 

Station	α	b	$\sigma^2$	Center	of Mass	
				m <sub>b</sub>	Ms	n
8	1.30	-2. 14	0.13	4.83	4.14	163
8 (R)	0.90	-0. 25	0.11	4.80	4.05	139
9	1.55	-3.71	0.15	5.00	4.04	72
9 (R)	0.91	-0.57	0.16	4.90	3.87	62
10	1.50	-3.49	0.14	5.24	4.36	22
10 (R)	0.21	2.98	0.10	5.03	4.02	16
11	1.26	-2.03	0.12	4.48	3.62	82
11 (R)	0.94	-0.65	0.13	4.63	3.70	47
12	1.19	-2.03	0.08	4.57	3.42	282
12 (R)	1.04	-1.37	0.08	4.75	3.56	192
13	1.35	-3.44	0.11	4.43	3.54	460
13 (R)		-2.98	0.13	4.71	3.86	263

where:

$$M_s = \alpha m_b + b$$

 $\sigma^2$  = variance normal to the  $M_s$ - $m_b$  estimate.

R =  $M_s - m_b$  linear relationship restricted to  $4.2 \le m_b \le 5.5$ . 0.7 M<sub>s</sub> units lower than the mean of the earthquakes. This difference corresponds to that observed for western United States earthquakes and explosions (Basham, 1969; Lambert and Alexander, 1971).

- Event 456 from east Kazakh as observed at TLO was not detected at either ALPA or NORSAR. We believe this detection to be caused by an unidentified event. It may be classified as a false alarm.
- Although event 626 from east Kazakh as observed at TLO and NORSAR is in or close to the earthquake populations, it does show good separation from the means of the earthquake populations.
- Event 797 from east Kazakh as observed at KIP, ALQ, ZLP, MAT, ALPA, and NORSAR is a presumed large double explosion. NOAA lists another event having an origin time 8 seconds later and with identical epicenter parameters relative to event 797. This event is numbered 798 and listed in Appendix II-A.
- Event 1279 from Novaya Zemlya as observed at MAT is presumed to be an aftershock of event 1276 and therefore, is a natural seismic event.
- The M<sub>s</sub>-m<sub>b</sub> values for all other unnumbered presumed explosions (east Kazakh and Novaya Zemlya) show good separation from the earthquake populations.

All of the presumed explosions, with the exception of possible false alarms or aftershocks previously described, show the expected separation between the population means. These means are represented by the best fit straight lines.

The results of fitting straight lines, tabulated in Table III-1, show on the average a slope ( $\alpha$ ) greater than 1.00 over the full range of bodywave magnitudes ( $m_b$ ). For the restricted (R) range (4.2  $\leq m_b \leq$  5.5), the slope is approximately 1.00 with the exception of station CTA. Here the slope is negative due to the large data scatter within this restricted  $m_b$  range. In general the variances ( $\sigma^2$ ) for the VLPE stations are greater than those for ALPA and NORSAR. We believe this result is primarily due to inherent VLPE instrumental gain variations.

## C. M<sub>s</sub> VERSUS m<sub>b</sub> FOR NETWORKS

One purpose of this study is to determine the capability of the VLPE network and the VLPE-ALPA-NORSAR combined network to distinguish between earthquakes and presumed explosions.

Figures 111-14 and 111-15 show all M<sub>S</sub> (T = 20 seconds) values determined by one or more station estimates for the VLPE network, and the VLPE-ALPA-NORSAR combined network, respectively. The presumed explosions discussed previously which overlapped the earthquake populations will overlap in these figures since most of these events were detected only by one station.

Figures III-16 and III-17 show all M values determined by two or more station M estimates for the VLPE network and the VLPE-ALPA-NORSAR combined network. Virtually all the problem events, previously discussed, are removed by requiring two station M estimates. Only events 626 and 797 remain close to the earthquake population. As previously stated, we presume that 797 is a double explosion from east Kazakh. We have no explanation or assumption concerning event 626, a presumed explosion from east Kazkah. Further, in Figure III-17, several Yugoslavian earthquakes detected at EIL and NORSAR overlap into the presumed explosion population. We believe that regional and depth effects on these event M estimates are the major factors causing low M values relative to m estimates are the

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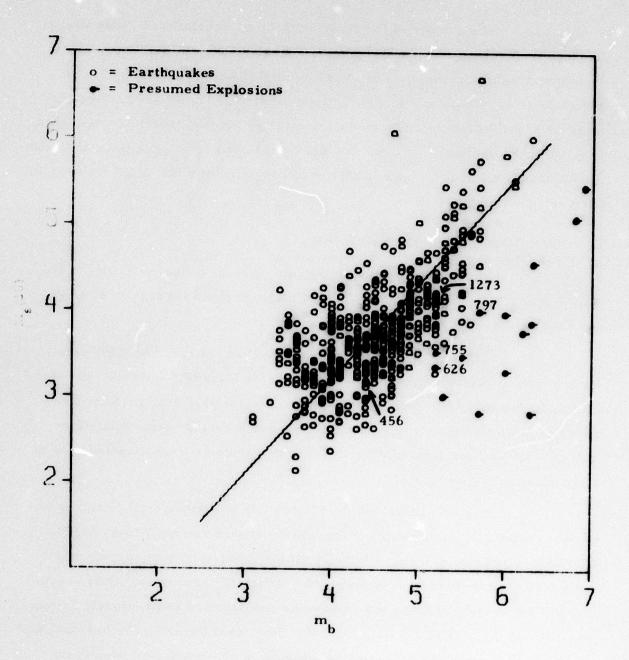


FIGURE III-14  ${
m M_s}$  VERSUS  ${
m m_b}$  AT VLPE NET WORK

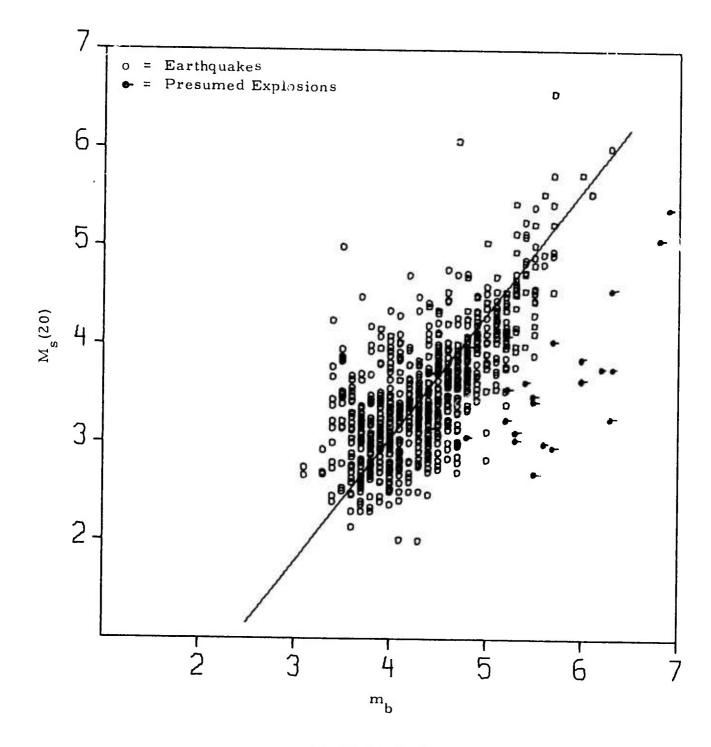


FIGURE III-15  $\rm ^{M}_{s}$  VERSUS  $\rm ^{m}_{b}$  AT VLPE, ALPA, AND NORSAR COMBINED NETWORK

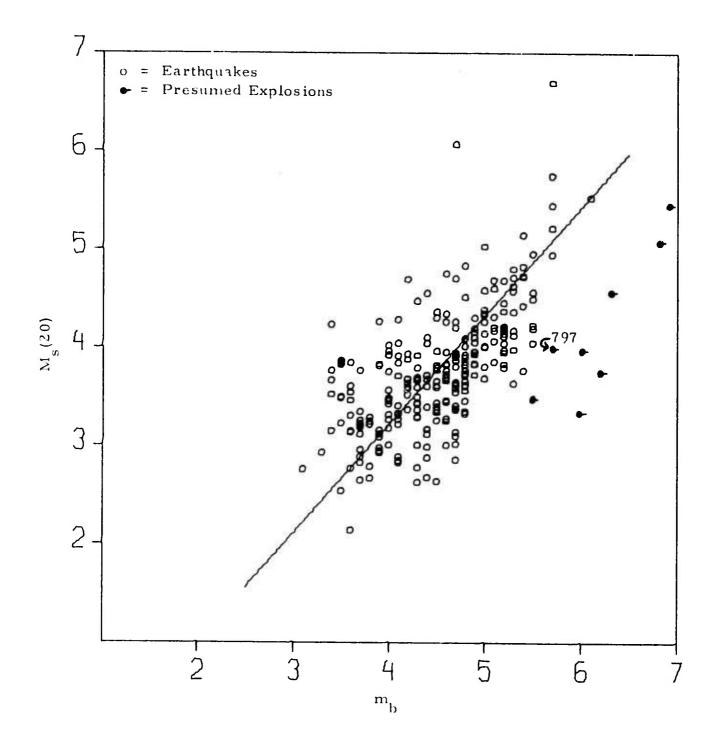


FIGURE III-16

M VERSUS m AT VLPE NETWORK
(2 OR MORE M VALUES)

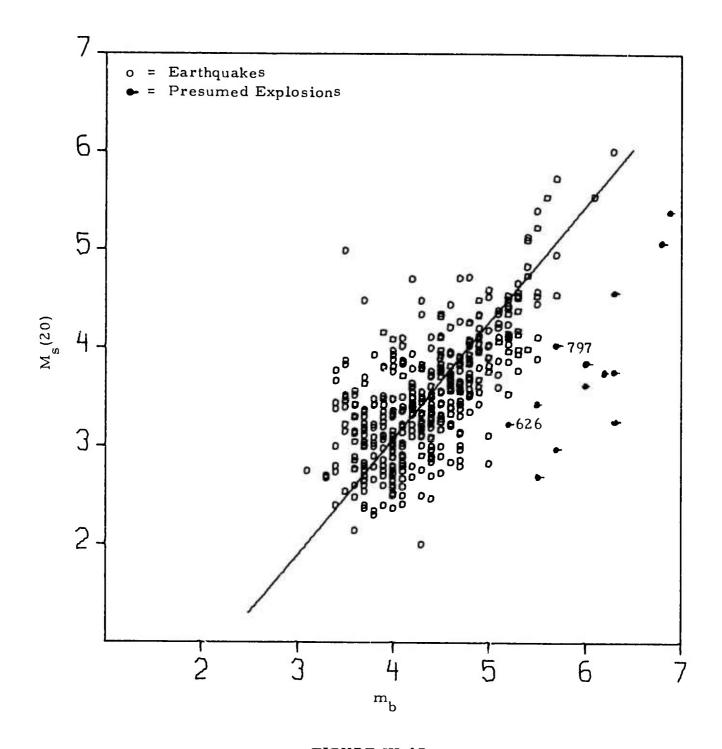


FIGURE III-17  $_{\rm s}^{\rm M}$  VERSUS  $_{\rm b}^{\rm m}$  AT VLPE, ALPA, AND NORSAR COMBINED NETWORK (2 OR MORE  $_{\rm s}^{\rm m}$  VALUES)

Table III-2 lists the best fit straight lines to these data. Based on these best fit line estimates we find that the network responses for various  $m_{\tilde{b}}$  ranges are as follows:

VLPE network:

 $M_s = 1.11 \text{ m}_b - 1.21 \text{ for the } 3.2 \le m_b \le 5.7 \text{ interval which encompasses the majority of the data as seen in Figure III-14.}$ 

VLPE-ALPA-NORSAR network:

 $M_s = 1.18 \ m_b^2 - 1.66$  for the  $3.2 \le m_b^2 \le 5.7$  interval. We consider only the  $M_s$  based on two-station estimates since many small relatively close events were detected by either ALPA or NORSAR. Thus, some regional effects on the  $M_s$  magnitude bias the  $M_s$ - $m_b$  relationship. Estimates of  $M_s$  by two or more stations tend to reduce this effect. Regional effects will also be present in the  $m_b$  estimates for those events detected only at NORSAR.

• All networks where  $4.2 \le m_b \le 5.5$  (see Table III-2):  $M_s = m_b - 0.80$ .

These relationships are summarized in Figure III-18. The slope for the VLPE network determined over the large  $m_b$  range (line 1) is greater than 1,00 because of the predominance of the large magnitude events. The VLPE-ALPA-NORSAR slope determined over the large  $m_b$  range (line 2) is greater than the VLPE slope,1.34, because of the introduction of an increased number and possibly biased low  $M_s$  and relatively higher  $m_b$  values. The estimate for the magnitude range  $4.2 \le m_b \le 5.5$  is a valid and unbiased relationship. This is thought to be true since all restricted network line estimates are essentially equal. (Table III-2). The consistency shown for the four restricted networks with respect to the  $M_s$ -  $m_b$  relationship is remarkable.

TABLE 111-2  $\begin{array}{ccc} \text{NETWORK M}_{s}\text{-}m_{b} & \text{RELATIONSHIPS} \end{array}$ 

Network	M	$= \alpha m_b$	+ b	Center of Mass		
	Ω	b	$\sigma^2$	mb	Ms	n
VLPE (1)	1.11	-1.23	0.12	4.50	3.76	492
VLPE (2)		-1.21	0.12	4.50	3.78	262
VLPE, A, & N (1)	1.26	-2.00	0.11	4.37	3.51	733
VLPE, A, & N (2)	1.18	-1.66	0.11	4.36	3.50	418
VLPE (1) R	0. 98	-0.68	0.10	4.71	3. 91	321
VLPE (2) R	0. 97	-0.65	0.10	4.73	3. 95	176
VLPE, A,& N (1) R	1. 05	-1.04	0.11	4.66	3. 84	399
VLPE, A,& N (2) R	0. 99	-0.80	0.10	4.67	3. 83	229

where:

VLPE = VLPE network only.

VLPE, A, & N = VLPE-ALPA-NORSAR combined network.

(1) = One or more station  $M_s$  estimate required.

(2) = Two or more station M<sub>s</sub> estimates required.

R = M<sub>s</sub>-m<sub>b</sub> linear relationship restricted between

 $4.2 \le m_{\rm b} \le 5.5.$ 

 $\sigma^2$  = Variance normal to the  $M_s$  -  $m_b$  estimate.

n = Total number of values.

\* We note that for the restricted networks the slopes are all essentially 1.0. Hence, if we consider a=1.0 then b is the difference between the m<sub>b</sub> and M<sub>s</sub> center of mass: b  $\approx$  -0.80.

Thus, the relationship  $M_s = m_b - 0.80$  is representative of the restricted data sets.

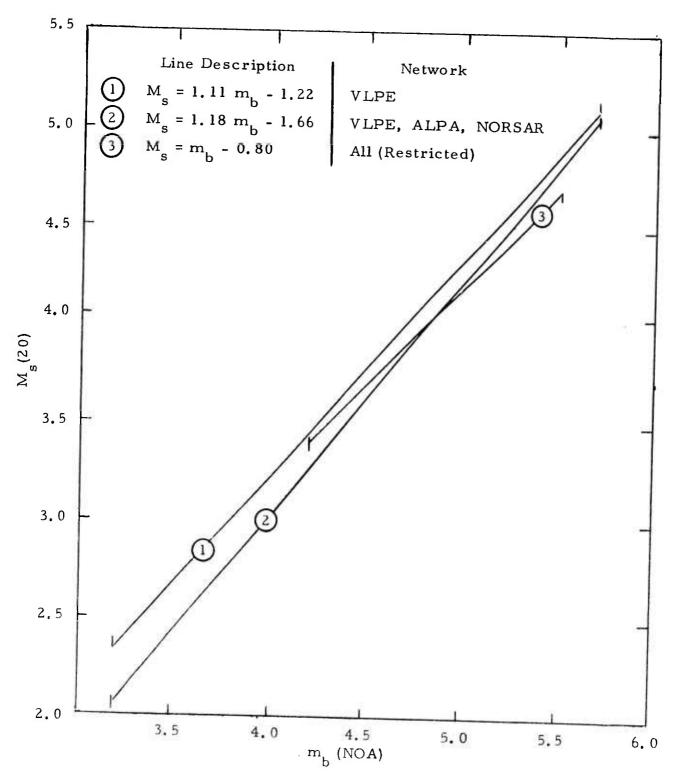


FIGURE III-18

VLPE, VLPE-ALPA-NOREAR COMBINED NETWORK

MEAN M<sub>s</sub>- m<sub>b</sub> RELATIONSHIPS

We now compare these mean results with those determined by others. To make this comparison requires that we have a standardized body-and surface-wave magnitude scale. For this purpose we used as standards the bodywave estimate by the National Oceanic and Atmospheric Administration,  $m_b$  (NOA), and the improved surface-wave formula introduced by Marshall and Basham (1972). This was convenient since most of the  $m_b$  values used in this study are  $m_b$  (NOA). Further, for the teleseismic distances and Rayleigh wave periods of 20 seconds, the Rayleigh wave magnitude formula applied to the data in this study corresponds within less than 0.1 of a magnitude unit to their formulation. Thus, no adjustment to our estimate was needed. The exceptions to the above statements were the NORSAR  $m_b$  values determined for near events and the  $m_b$  values resulting from only NORSAR detecting. No adjustments were made to the NORSAR  $m_b$  or  $m_b$  data since no information is available regarding regional  $m_b$  corrections.

We examined all of the Eurasian events in the magnitude range  $4.2 \le m_b \le 5.5$  which were reported by Marshall and Basham (1972) and whose magnitudes were estimated from a network of 42 WWSS. Eurasian stations. Subsequently, we determined their center of mass to be  $M_s \approx 4.18$ ,  $m_b \approx 4.73$ . However, these  $M_s$  values had been adjusted for depth:  $M_s + 0.008$  h. By assuming an average depth (h) of 33 kilometers we recomputed the center of mass to be  $M_s \approx 3.92$  (=  $M_s - 0.26$ ) and  $m_b \approx 4.73$ . The difference,  $m_b - M_s = 0.81$ , corresponds closely to that determined for the VLPE. This point is shown in Figure III-19 and numbered 2.

Basham (1969) gives the following M  $_{\rm S}$  versus m  $_{\rm b}$  relationship for south-western North American earthquakes recorded by the Canadian network of seismographs:

$$M_s$$
 (Canadian) = 1.36  $m_b$  (Canadian) - 1.44.

Converting this equation to the standardized body- and surface-wave magnitude scale yields:

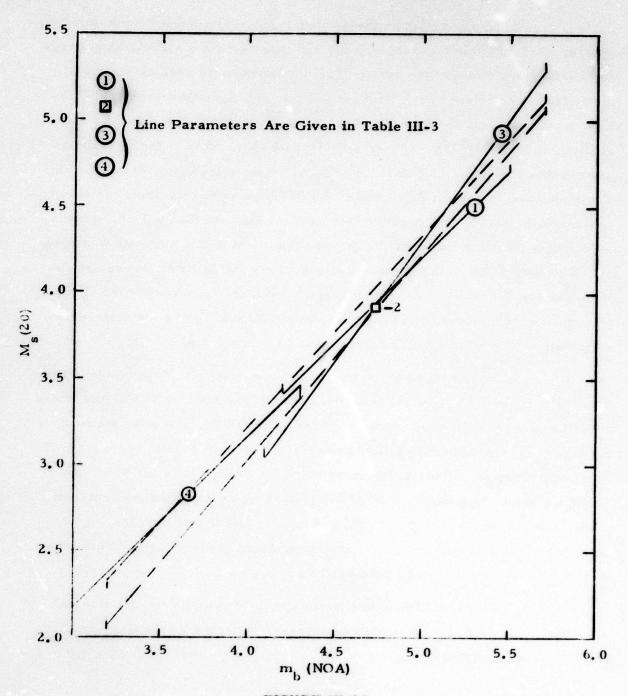


FIGURE III-19

COMPARISON OF NETWORK MEAN M - m
RELATIONSHIPS TO THOSE OF OTHERS

TABLE III-3 SUMMARY OF REDUCED M<sub>s</sub> - m<sub>b</sub> RELATIONSHIPS

111		Centers	Centers of Mass			
rigure in-19 Line	Reduced Equation	M <sub>s</sub> (20)	M <sub>s</sub> (20) m <sub>b</sub> (NOA)	m <sub>b</sub> Kange	Earthquakes	Stations
1	$M_{s}(20) = m_{b}(NOA) - 0.80$ 3.92	3.92	4.71	4.2≤m <sub>b</sub> ≤5.5	Eurasian	VLPE, ALPA
						& NORSAR
2	Not Determined	≈3.92*	≈3.92* ≈4.73*	4.25 mb ≤ 5.5	Eurasian	WWSSN
3	$M_{s}(20) = 1.36(NOA) - 2.53$	3.96	4.77	4.1≤ m <sub>b</sub> ≤ 5.7	South West	Canadian
					N. America	
4	$M_s(20) = m_b(NOA) - 0.83$	2.81	3.64	3.0≤m <sub>b</sub> ≤4.3	Nevada	LRSM

Reference Source

This Study

Estimated for this study

Marshall & Basham (1972)

Basham (1969)

Lambert & Alexander (1971)

$$M_s = 1.36 \text{ m}_b - 2.53$$

for the magnitude range  $4.1 \le m_b \le 5.7$  (Figure III-19, Iine 3). This conversion is described in detail in Appendix III-B. Again the difference between  $m_b$  and  $M_s$  at the center of mass is 0.81.

Lambert and Alexander (1971) gave the following M  $_{\rm S}$  versus m  $_{\rm b}$  relationship for a swarm of Nevada earthquakes recorded by LRSM stations:

$$M_s$$
 (Geotech) =  $m_b$  (Evernden) + 0.06.

Converting this equation to the standardized body- and surface-wave magnitude scale yields:

$$M_s = m_b - 0.83$$

for the magnitude range  $3.0 \le m_b \le 4.3$  (Figure III-19, line 4). This conversion is described in detail in Appendix III-B.

Figure III-19 also shows the same data given in Figure III-18 for the VLPE and Combined networks. Line 1 represents the  $M_s = m_b - 0.80$  for the magnitude range  $4.2 \le m_b \le 5.5$ , and the dashed lines represent the extended  $m_b$  range for the two networks.

The many uncertainties in the  $M_s$  and  $m_b$  formulations and conversion factors to the so-called standardized magnitude scales have not been investigated by us. In spite of these uncertainties the correspondence among these sets of data is remarkable.

The results of this analysis show the following:

Distinct separation is present between Eurasian earthquakes and presumed eastern Kazakh and Novaya ZemIya explosions. With the noted exceptions (Events 626 and 797) these results are consistent with those published by Marshall and Basham (1972).

- Marginal separation is present between Eurasian earthquakes and presumed Ural explosions. This is also consistent with the results published by Marshall and Basham (1972).
- The VLPE network and the VLPE-ALPA-NORSAR combined network M versus m relationships can be compared directly to that reported by Marshall and Basham (1972) for a network of 42 WWSS Eurasian stations.

We have not discussed discrimination thresholds in this section because of the limited amount of presumed explosion data. However, because of the similarities shown between the VLPE network and the 42 Eurasian WWSS station network, we would expect the VLPE network discrimination threshold to be equivalent to the 90% threshold of the WWSSN or  $M_s = 3.2$  (Marshall and Basham, 1972).

The large variance ( $\sigma^2$ ) associated with the M $_s$ - m $_b$  line fits to stations and networks clearly indicated the need for station and path M $_s$  corrections. Considerable time and effort was expended in attempting to determine these corrections. However, we are unable to do so with a sufficient degree of confidence at some stations, due to the problems discussed in the introduction to this section.

### D. LOVE TO RAYLEIGH WAVE AMPLITUDE RATIOS (LQ/LR)

A potential measure of the discrimination capability of the VLPE is the LQ/LR amplitude ratio. Previous work by Lambert, et al., (1973) compiled average LQ/LR values (T = 30 seconds) as functions of network and total Eurasian seismic region, network and sub-regions, and station and sub-region. In this report, we again compiled statistics (LQ/LR ratios) for the network with the currently expanded data base. These results support the previous conclusions.

- The arithmetic mean LQ/LR ratio for earthquakes within each Eurasian region, except the south Kamchatka region is greater than 1.0 (Table III-4). In particular, the overall arithmetic mean is 1.56 with a standard deviation of 1.51. The low values observed from south Kamchatka suggest that this region does not contain as wide a variety of source mechanisms as do the other regions.
- There does not appear to be any obvious correlation between the mean ratios obtained from a given region. This suggests that earthquake source parameters vary significantly within each region, and thus, produce a wide variety of radiation patterns.
- The overall arithmetic mean LQ/LR ratio for presumed explosions from the east Kazakh region is 0.77 with a standard deviation of 0.26. This average is comprised of six values from five events. The standard deviation of 0.26 is significantly smaller than those observed for the earthquakes.

The complete statistics for the LQ/LR ratios are shown in Table III-4.

Figure III-20 presents the frequency distribution of the log (LQ/LR) values obtained for all Eurasian regions excluding the six values from east Kazakh. This distribution appears to be normal. We obtained a mean value for the log (LQ/LR) of 0.04 with a standard deviation of 0.36. Approximately 450 values are within one standard deviation of the mean. These statistics are in agreement with the theoretical results predicted by Turnbull (1974).

Briefly, he examined the expected behavior of LQ/LR ratios as a function of period for various source parameters: dip  $(\delta) = 10^{\circ}$ ,  $30^{\circ}$ ,

TABLE III-4 LQ/LR STATISTICS

Statistics Over All Eurasian Regions									
Station	Mean	σ	Mean (log)	Antilog	log σ	Number of Values			
CTA	1.44	1.45	-0.01	0.98	0.39	4.0			
CHG	1.57	1.54	0.04	1.10	0.36	48			
FBK	1.31	1.09	0.03	1.07	0.27	106			
TLO	1.62	1.18	0.11	1.29	0.30	50			
EIL	1.69	1.72	0.01	1.03		54			
KON	1.67	1.66	0.08	1.19	0.46	26			
OGD	2.14	3.08	0. 05	1.17	0.35	138			
KIÐ	1.30	1.14	-0.03	0.94	0.17	28			
ALQ	1.80	1.56	0. 09	1.22	0.37	80			
ZLP	0.79	0.39	-0.13	1	0.45	36			
MAT	1.46	0.99	0. 05	0.74	0.18	8			
<del></del>		<u> </u>		1.12	0.38	61			
Statistics Over All Stations									
Region	Mean	σ	Mean (log)	Antilog	log σ	Number of Values			
SKAM	0.94	0.78	-0.14	0.73	0.33	90			
NKAM	1.46	1.39	0.01	1. 02	0.41	61			
KURS	1, 34	1.40	-0.01	0.97	0. 34	95			
TWAN	1.58	1.34	0.07	1.18	0. 34	69			
CENA	1,65	1.45	0.09	1.23	0. 33	116			
CASP	2.16	2.45	0.15	1.43	0.41	1			
SIRA	2.14	1.76	0.22	1.65	0.33	17			
GTUR	1, 96	2.11	0.10	1.26	0.43	29			
EKAZ	0.77	0.26	-0.13	0.74	0.14	56			
Other	1.80	1.60	0.11	1.28	0.37	6 96			
Earthquake Statistics Over All Regions and Stations									
				- Francis affet !	varions.				
	Mean —————	σ	Mean (log)	Antilog	log σ	Number of Values			
	1.56	1.51	0. 04	1.10	0. 36	635			

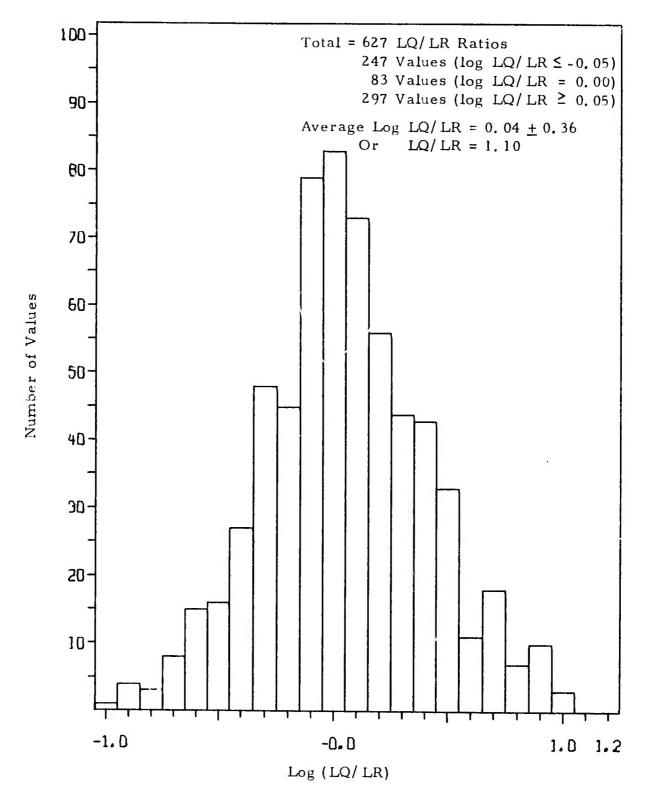


FIGURE III-20

LOVE TO RAYLEIGH WAVE AMPLITUDE RATIOS OF EURASIAN EVENTS SEEN BY VLPE STATIONS

 $60^{\circ}$ ; slip ( $\lambda$ ) =  $10^{\circ}$ ,  $30^{\circ}$ ,  $60^{\circ}$ ,  $90^{\circ}$ ; and depth (h) = 5, 30, and 50 kilometers. At each 5 second increment in period and for a given combination of  $\delta$  and  $\lambda$ 's, at a fixed h, Turnbull (1974) averaged the LQ/LR ratios over  $22^{\circ}$  azimuthal increments (Figure III-21). For T = 30 seconds we determined a theoretical mean value of 1.38  $\pm$  0.59 at h = 30 kilometers. Thus, the observed arithmetic average of LQ/LR of 1.56 at T = 30 seconds closely compares to the unweighted theoretical mean value for h = 30 kilometers with the various fault orientations observed over many azimuths.

We note that the majority of the observed VLPE LQ/LR ratios were for T = 30 seconds since higher frequency Love waves were mostly indistinguishable from the Rayleigh wave data remaining on the horizontal components even after rotation. The large standard deviations obtained from the VLPE data may be accounted for by the following:

- The periods can vary from 20 to 40 seconds.
- The depths are not uniformly 30 kilometers.
- The quality of the data is sometimes questionable.

We can observe from Figure III-21 that depth and period variations have a considerable effect on the range (i.e., standard deviation) for the values considered.

We next chose to examine all events from central Asia with three or more stations observing LQ and LR. Central Asia was chosen primarily because it is closest to east Kazakh, our area of interest. By requiring three or more VLPE stations reporting LQ and LR we obtain wide azimuthal coverage (Table III-5). With this azimuthal coverage, all of the mean LQ/LR ratios for shallow earthquakes are significantly greater than the overall arithmetic mean value of 0.77 for the presumed east Kazakh explosions.

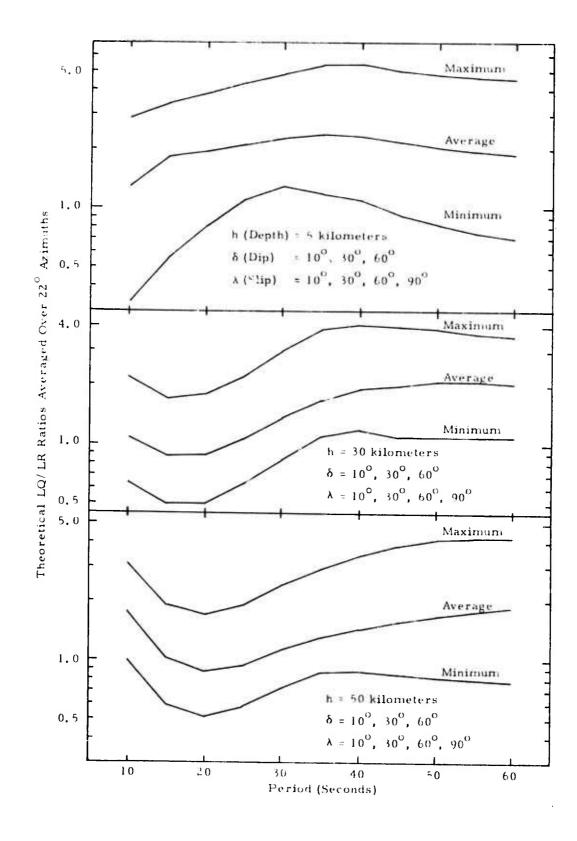


FIGURE III-21
THEORETICAL LQ/LR RATIOS AVERAGED OVER 22° AZIMUTHAL INCREMENTS AS A FUNCTION OF PERIOD

TABLE III-5

TABLE OF MEAN LQ/LR RATIOS (WITH 3 OR MORE VALUES PER EVENT) FOR CENTRAL ASIA

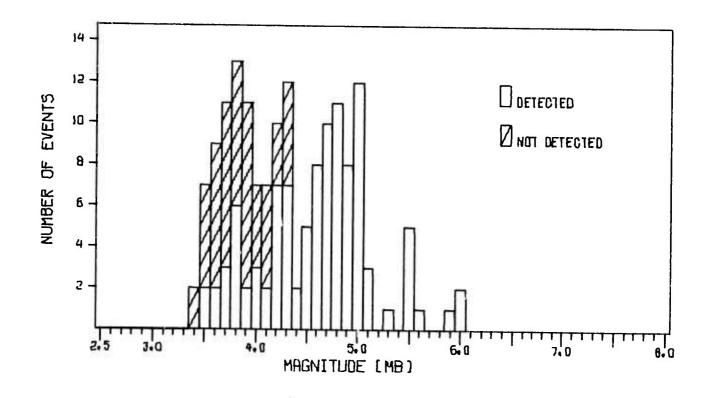
Event Number	m <sub>b</sub>	Mean (LQ/LR)	Number of Values	σ	Event to Station Azimuth in Degrees
95	5.2	1, 11	5	0.53	146, 22, 302, 320, 345
2 94	5.2	0.88	4	0.70	146, 22, 302, 320
656	4.8	2.79	3	1.56	124, 272, 56
881	5.2	1.36	3	0.74	320, 56, 77
918	5.0	1.56	6	1.50	146, 320, 56, 10, 307, 77
929	5.1	0. 93	4	0.62	146, 320, 56, 77
946	4.3	1.82	3	0.68	146, 56, 77
950	4.9	1.22	3	0.46	320, 56, 10
965	4.8	1.54	4	0. 97	320, 56, 10, 77
1112	5.2	2.23	3	0.91	124, 146, 10
1227	4.7	1.58	3	1.33	272, 320, 77

Based on these data, determined from three or more VLPE stations, we have clear discrimination between shallow earthquakes in central Asia and presumed east Kazakh explosions. Further, theoretically and experimentally, over 80 percent of all log (LQ/LR) ratios (T = 30 seconds) will be greater than the mean log (LQ/LR) value for east Kazakh regardless of the region or path. This conclusion is based on the theoretical results by Turnbull (1974) and on the normal distribution of observed ratios shown in Figure III-20. In particular, the antilog (0.74) of the mean log (LQ/LR) for east Kazakh is one standard deviation (0.36) from the antilog (1.10) of the mean log (LQ/LR) for Eurasia. The remaining 20 percent are the result of both the low values obtained from the south Kamchatka region and dubious data quality.

#### E. NEGATIVE DISCRIMINATION

Any negative discriminate is at best, only an aid to the problem of distinguishing between earthquakes and explosions. Negative discriminants based on the presence of a particular phase, relative to the detection of the P phase, can be of importance if sufficient m separation exists between the zero percent detectability level for explosions and the 100 percent detectability level for earthquakes.

We use as an example, the presence or absence of Rayleigh waves at ALPA for earthquakes from central Asia and presumed explosions from east Kazakh. We apply the maximum likelihood detection procedure by Ringdal (1974). Figures III-22 and III-23 show the detection probabilities of surface-waves as a function of bodywave magnitude  $(m_b)$  for central Asian earthquakes and presumed east Kazakh explosions, respectively. Comparing these figures we observe that no presumed explosion surface-waves were detected at ALPA below an  $m_b$  of 5.0; whereas, all earthquakes were detected for  $m_b \ge 4.5$  and the maximum likelihood 90 percent detection level is



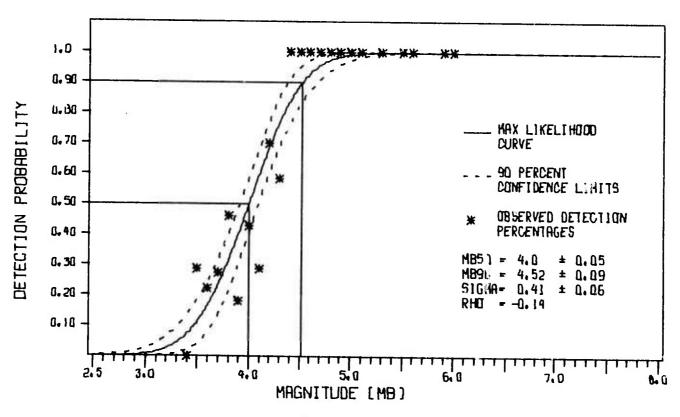
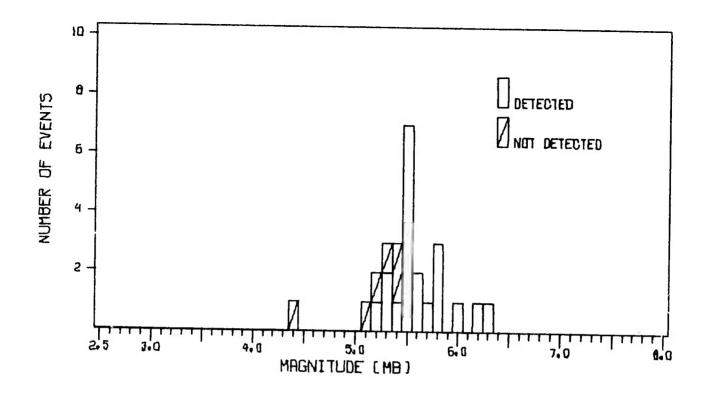


FIGURE III-22
DETECTION STATISTICS AT ALPA FOR
CENTRAL ASIAN EARTHQUAKES



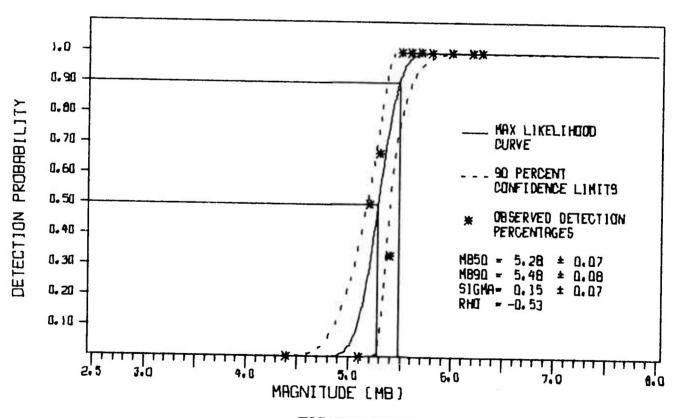


FIGURE III-23
DETECTION STATISTICS AT ALPA FOR PRESUMED
EAST KAZAKH EXPLOSIONS

 $m_b = 4.52$ . It should be noted that the explosion population is small and there is only one explosion below an  $m_b = 5.0$ . These data demonstrate the negative discriminant concept. That is, events in the magnitude range  $4.5 \le m_b \le 5.0$  having no Rayleigh waves can be classified as explosions.

This type of negative discriminant can be extended to other phases, such as long-period P and S for a given station-region combination.

#### F. SUMMARY

- At single VLPE stations, separation between presumed explosions and earthquakes was not clear due to possible instrumental gain variations causing undue scatter in the M<sub>s</sub> estimates. However, separation of the presumed explosions relative to the means (best fit straight lines) of the earthquake population was generally consistent with that observed by others.
- For the networks requiring two or more station estimates of  $M_s$ , distinct separation is achieved for presumed eastern Kazakh and Novaya Zemlya explosions except for the previously noted eastern Kazakh events 626 and 797. Marginal separation is present for presumed Ural explosions. These results are consistent with those published by Marshall and Basham (1972).
- The VLPE network and the VLPE-ALPA-NORSAR combined network M<sub>s</sub>- m<sub>b</sub> relationships (best fit straight lines) for Eurasian earthquakes agree closely to those determined by others.
- We show that theoretically and experimentally over 80 percent of all log (LQ/LR) ratios (T = 30 seconds) will be greater than the 0.74 observed for presumed explosions from east Kazakh.

• Using average LQ/LR ratios determined from three or more values, the VLPE network clearly discriminates between shallow earthquakes in central Asia and presumed east Kazakh explosions.

# SECTION IV VLPE DETECTION CAPABILITY

#### A. INTRODUCTION

In this section we present the detection capability of the VLPE stations. The opening statements of the previous section (Section III) adequately describe the experimental limitations associated with these data. In particular, these conditions prevented the assessment of specific station-region detection capabilities. Thus, in lieu of station-region capabilities, we present the detection capabilities over all distances, distances less than 50 degrees, and distances greater than 50 degrees when possible.

The method of estimating detection capabilities utilized here is based on a maximum likelihood procedure. This method assumes that the probability of detecting an event of a given magnitude may be described as a cumulative Gaussian probability integral. The procedure is to find the mean and standard deviation values which maximize the probability of the observed pattern of detection versus no detection decisions for an ensemble of events of various magnitudes. The accuracy of the method is limited by the quality and quantity of the observed data. A discussion of the assumptions and limitations to the method is given by Ringdal (1974).

We can apply the above model to estimating detectability in terms of both bodywave and surface-wave magnitudes. Lambert, et al. (1973) applied this model in terms of bodywave magnitude to eleven VLPE sites and various VLPE networks. Extrapolation to detectability values in

acyth distance with the same

terms of  $M_s$  was accomplished indirectly by a linear  $M_s$ - $m_b$  relationship determined for the VLPE network. However, Ringdal (1974), Harley and Heiting (1972), and Lacoss (1971) have shown that scattering of the  $M_s$ - $m_b$  relationship must be taken into account. Thus, it is desirable to express the detection threshold directly in terms of  $M_s$ .

Detection thresholds estimated by the direct method require a common ensemble of events detected on the basis of surface-wave magnitude at stations or arrays having lower thresholds than the stations in question. For this purpose we used all events where surface-waves were detected by ALPA and NORSAR from our data base of 1253 Eurasian earthquakes. These two arrays have significantly lower detection thresholds than the individual VLPE stations. That is, for the 90 percent detection threshold;  $m_b \approx 4.3$  for ALPA (Strauss, 1973) and 4.5 for NORSAR (Laun, et al., 1973) versus  $m_b \approx 5.4$  for the VLPE (Lambert, et al., 1973).

A total of 1105 earthquakes were detected by either ALPA or NORSAR of which 261 were detected by both arrays. This ensemble of 1105 events forms the basis for directly estimating the M<sub>s</sub> detection thresholds of the individual VLPE stations.

Maximum Likelihood detection threshold estimation based on both bodywave and surface-wave magnitudes was performed for each of the eleven single VLPE stations. For each station, all events were included for which a decision detection versus no detection could be made. We deleted events occurring during any period of malfunctioning hardware, and we did not consider presumed explosions or events where interfering signals were present.

# B. SINGLE STATION DETECTION THRESHOLDS

# 1. Bodywave Estimates

The results for estimations based on bodywaves are presented in Appendix IV-A and summarized in Table IV-1. Fifty percent detection estimates are estimated with reasonably good confidence ( $\sigma < 0.1 \text{ m}_b$  units). Separate estimates were computed for all events within 50 degrees epicentral distance as well as for events of greater distance than 50 degrees since the distribution of station-events shows two distinct groupings (Figure II-2). It is seen that the difference in 50 percent detectability for these two subsets is an average of 0.43 m<sub>b</sub> units. The average 50 percent m<sub>b</sub> threshold of all stations is 4.59. These results agree closely to those reported by Lambert, et al. (1973).

### 2. Surface-Wave Estimates

The results for estimations based on surface-waves detected by ALPA and NORSAR are presented in Figures IV-1 through IV-11 and summarized in Table IV-1.

The 50 percent detection estimates are given with reasonably good confidence ( $\sigma$ <0.1 M units) with the exception of stations FBK, OGD ZLP and MAT where 0.10< $\sigma$ <0.15 M units is observed. The average 50 percent M threshold estimate of 3.53 is 0.20 M units lower than the average determined indirectly by extrapolation and reported by Lambert, et al (1973).

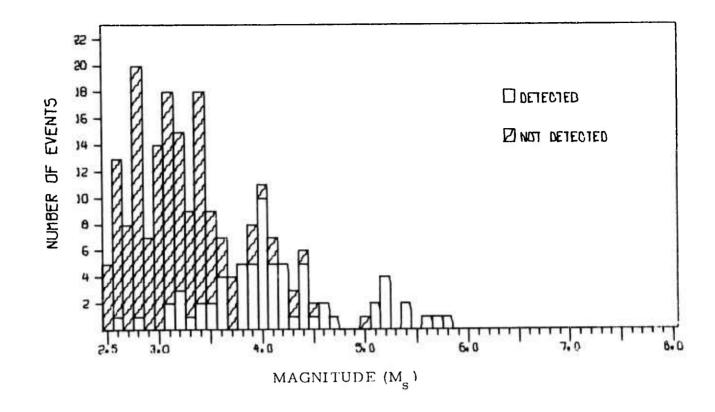
Separate estimates were computed for all events within 50 degrees epicentral distances as well as for events of greater distances than 50 degrees. The difference in the 50 percent detectability for these two subsets is an average of 0.51 M<sub>2</sub> units.

TABLE IV-1 SUMMARY OF DETECTION STATISTICS FOR THE VLPE STATIONS

Station	<u> </u>		m <sub>b</sub>		M s		M <sub>s</sub> Corrected for Station-Path		Unger ** (1974)			
		50%	90%	σ	50%	90%	σ	50%	90%	σ	T=20	T=30
l. CTA All Λ	82	4.75	5,48	0.57	3.81	4.56	0,58	4.01	4.78	0.60	4.22	3, 64
All <b>1</b> 2. CHG < 50° > 50°	44 33 61	4, 39 4, 23 4, 58	5.18 5.06 5.26	0.62 0.64 0.53	3, 33 3, 20 3, 44	3, 99 3, 93 4, 08	0,52 0,57 0,50	3,50 3,38 3,65	4, 14 3, 97 4, 33	0.49 0.47 0.53	3, 66 3, 54 3, 80	3, 34 3, 22 3, 48
All 1 3. FBK < 50° > 50°	48 31 74	4.74 4.65 4.84	5.77 5.67 5.86	0.60 0.80 0.80	3.63 3.44 3.80	4.66 4.46 4.83	0,80 0,80 0,80	3.77 3.65 3.87	4,80 4,67 4,90	0.80 0.80 0.80		
All \( \) 4. TLO \( < 50^\text{o} \) \( > 50^\text{o} \)	58 27 78	4.55 4.17 4.70	5.44 5.01 5.52	0. 69 0. 65 0. 64	3. 45 3. 00 3. 71	4, 48 3, 79 4, 61	0.80 0.61 0.70	3, 59 3, 12 3, 85	4, 61 3, 96 4, 73	0. 80 0. 66 0. 69		
All Λ 5. ElL < 50° > 50°	39 20 79	4.58 4.41 4.80	5,61 5,43 5,56	0.80 0.80 0.59	3.60 3.42 3.83	4.62 4.41 4.81	0.80 0.77 0.77	3. 74 3. 53 4. 03	4.76 4.47 5.05	0.80 0.73 0.80		
All A 6. KON < 50° > 50°	47 32 65	4.47 4.30 4.58	5.24 5.25 5.19	0.60 0.74 0.48	3, 36 3, 02 3, 59	4.29 4.05 4.27	0.73 0.80 0.53	3.53 3.14 3.79	4.51 4.16 4.44	0.77 0.80 0.51	3, 61 3, 45 3, 75	3, 43 3, 27 3, 58
7. OGD All A	82	4.58	5, 31	ύ <b>.</b> 5 <b>7</b>	3.49	4.46	0,75	3. 62	4.35	0.58		
All \( \Lambda \) 8. KIP < 50° > 50°	74 46 101	4.54 4.37 4.62	5.22 4.91 5.33	0.53 0.42 0.56	3.53 5.10 3.79	4.50 3.71 4.74	0.76 0.48 0.74	3.66 3.35 3.90	4.56 3.85 4.85	0.70 0.39 0.74	3, 78 3, 57 3, 91	3, ±1 3, ±2 3, 50
9. ALQ All 1	85	4.77	5, 33	0.44	3.72	4.24	0.40	3. 92	4.33	0.32	3.86	3, **
10. ZLP * All Λ	129	4.86	5.44	0.46	3.87	4.65	0.61	4.06	4.70	0.49	4.01	<b>3.7</b> 5
All 1 11. MAT * < 50° > 50°	35 28 74	4.21 3.91 4.89	5.24 4.94 5.47	0.80 0.80 0.45	3, 07 2, 61 3, 81	4.09 3.64 4.25	0.80 0.80 0.34	3. 32 2. 92 3. 97	4.34 3.95 4.35	0, 80 0, 80 0, 54		
All 1 Averages < 50° > 50°		4.58 4.29 4.72	5.39 5.18 5.46	0.61 0.69 0.58	3, 53 3, 11 3, 71	4.41 4.00 4.51	0.69 0.69 0.63	3.70 3.30 3.87	4.54 4.15 4.66	0.67 0.66 0.66		

\* Insufficient Data

\*\* 50 percent Detection Level



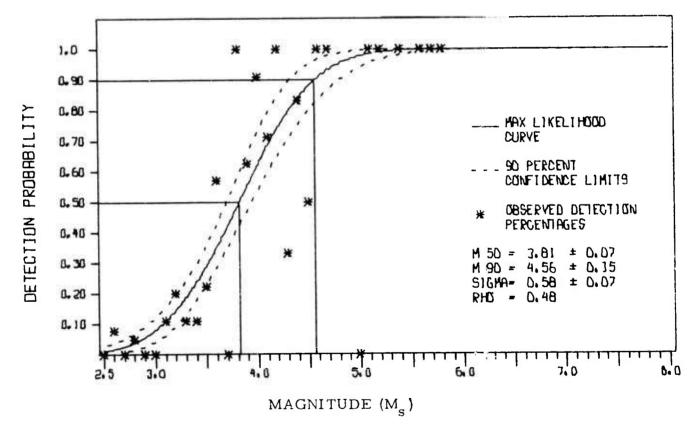
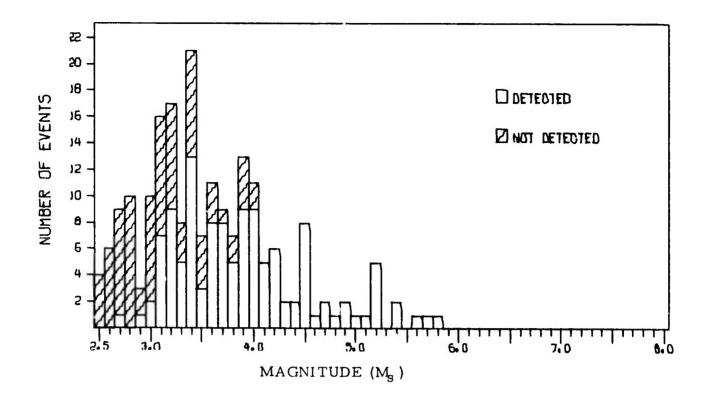
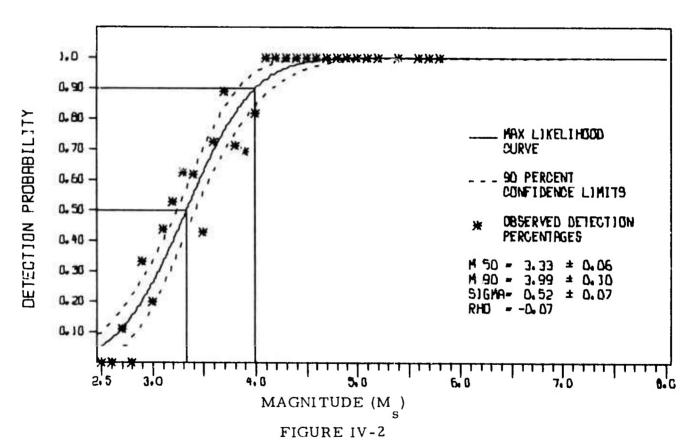


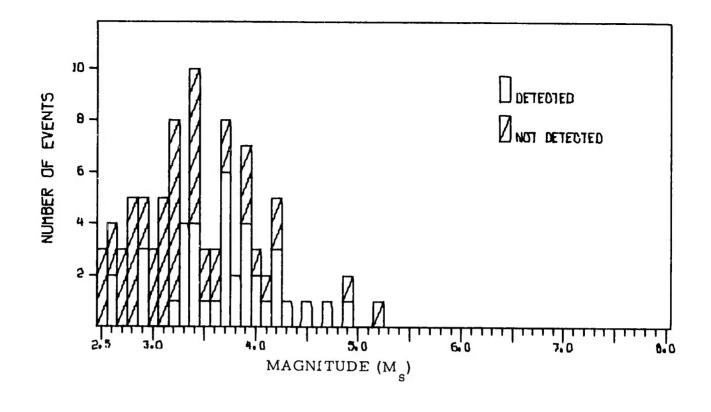
FIGURE IV-1 DETECTION STATISTICS FOR CTA RELATIVE TO ALPA AND NORSAR M  $_{\rm S}$  VALUES

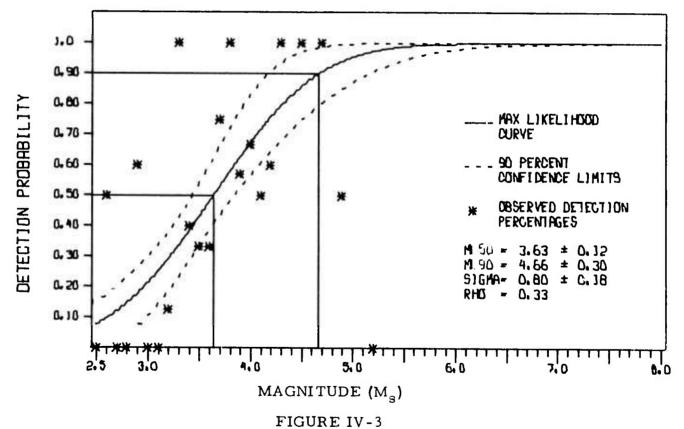
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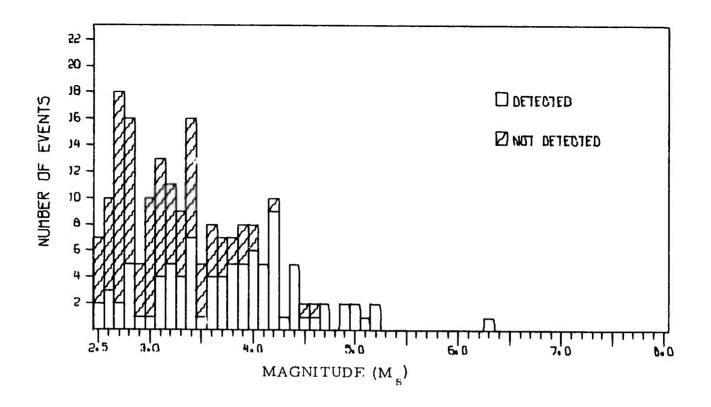


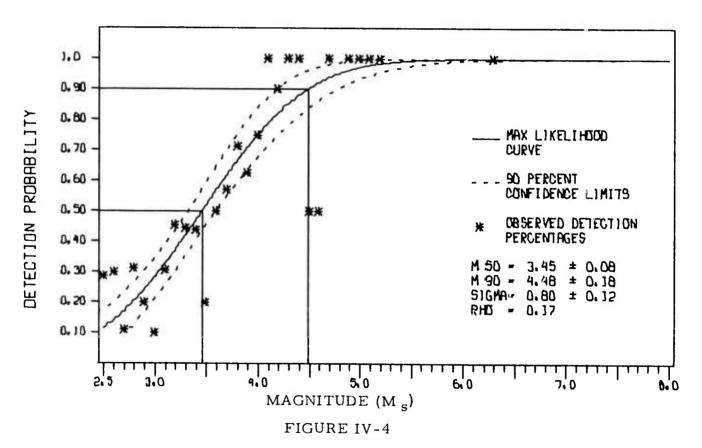
DETECTION STATISTICS FOR CHG RELATIVE TO ALPA AND NORSAR M  $_{\rm s}$  VALUES



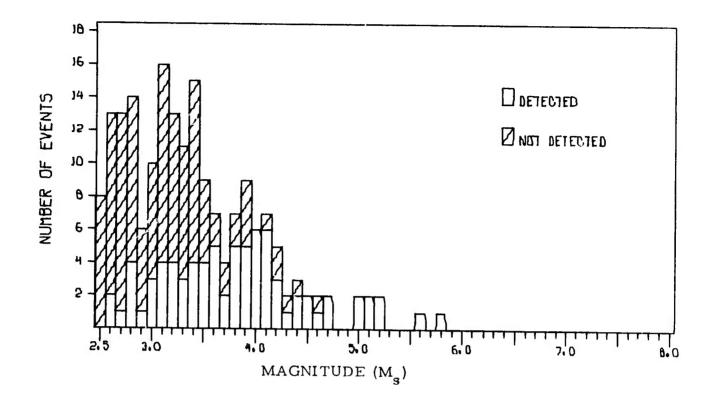


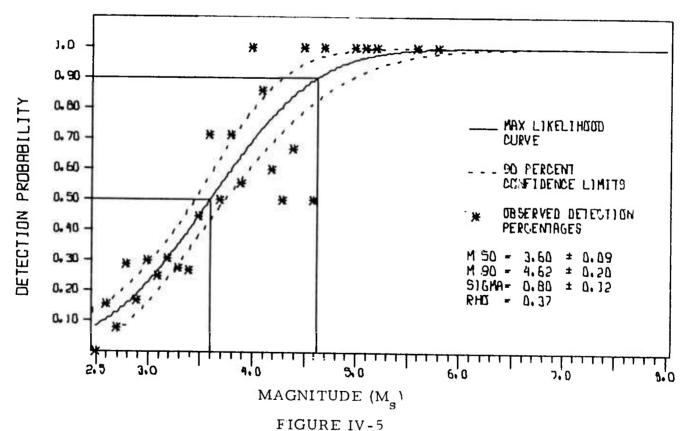
DETECTION STATISTICS FOR FBK RELATIVE TO ALPA AND NORSAR M VALUES



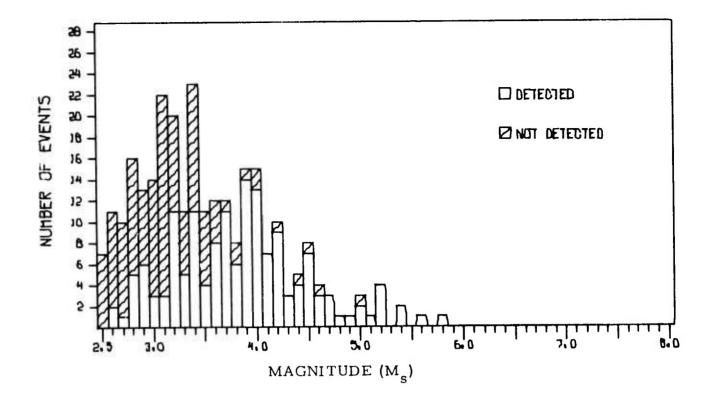


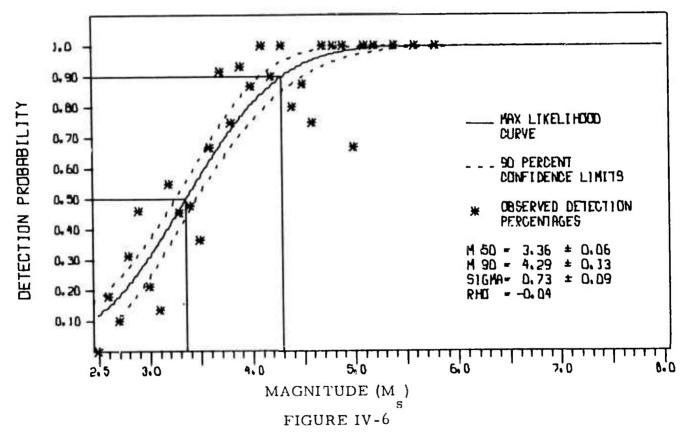
DETECTION STATISTICS FOR TLO RELATIVE TO ALPA AND NORSAR M  $_{\rm s}$  VALUES



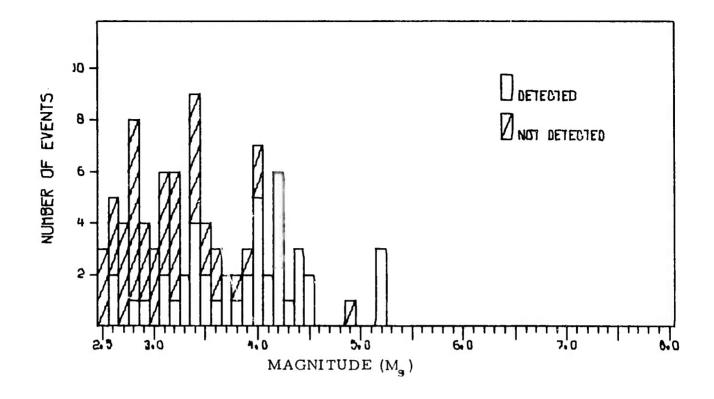


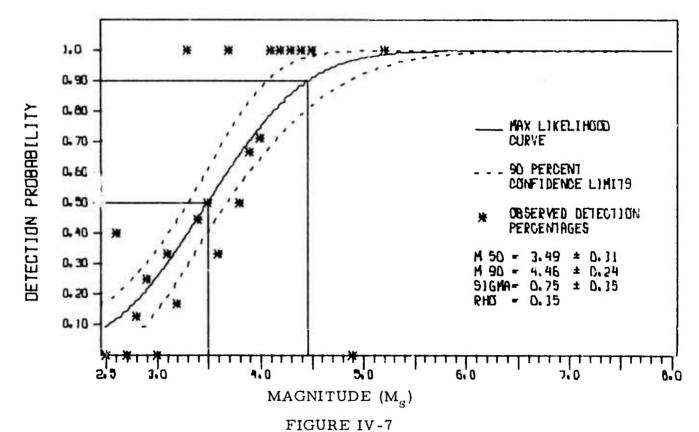
DETECTION STATISTICS FOR EIL RELATIVE TO ALPA AND NORSAR M VALUES



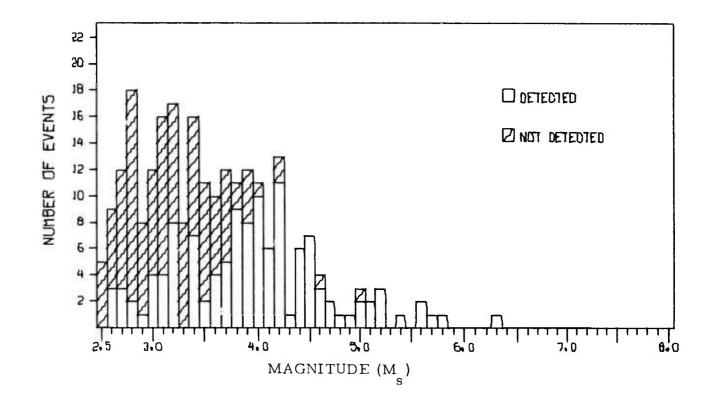


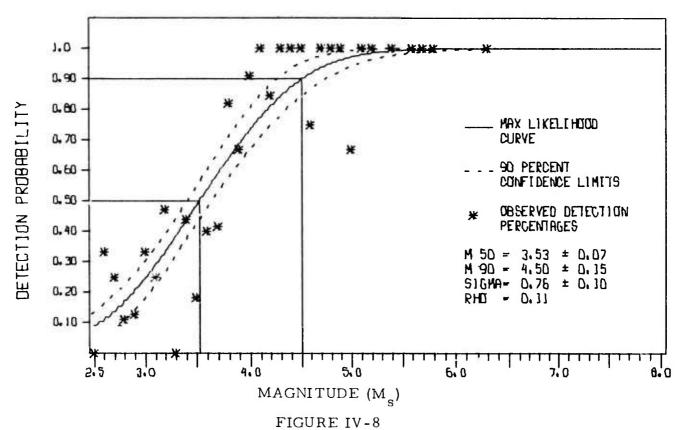
DETECTION STATISTICS FOR KON RELATIVE TO ALPA AND NORSAR M  $_{\rm s}$  VALUES



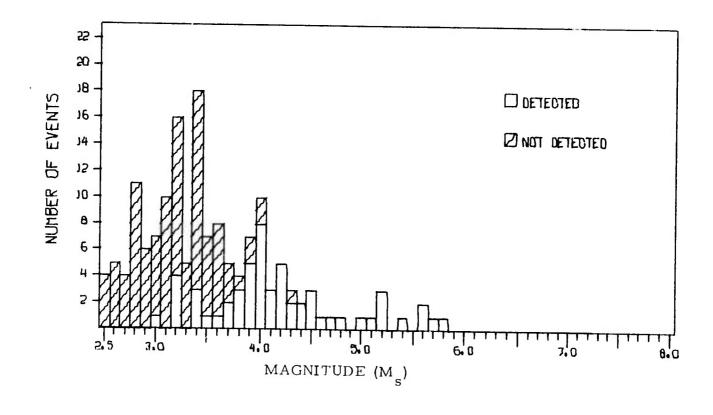


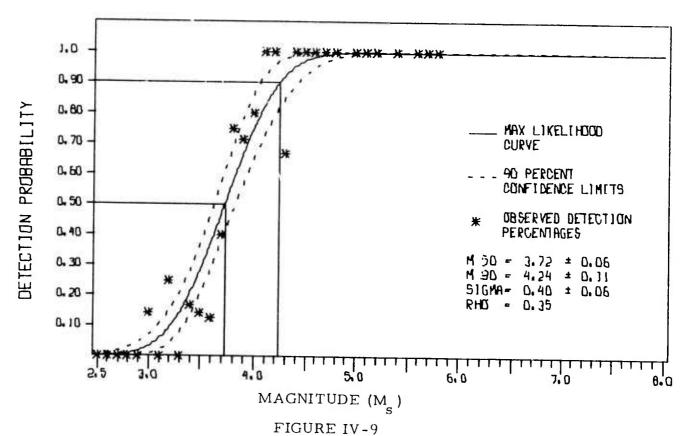
DETECTION STATISTICS FOR OGD RELATIVE TO ALPA AND NORSAR M VALUES



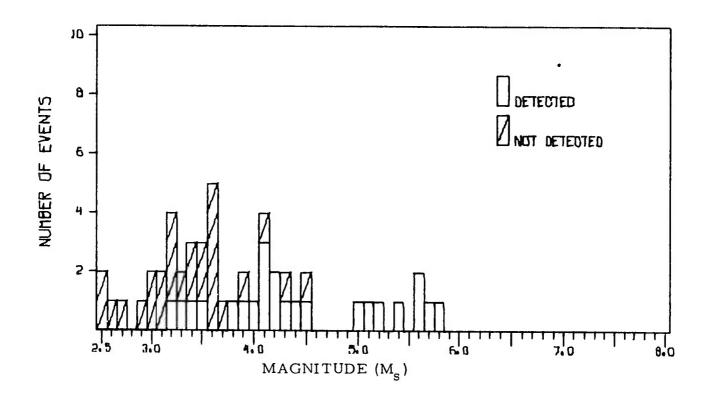


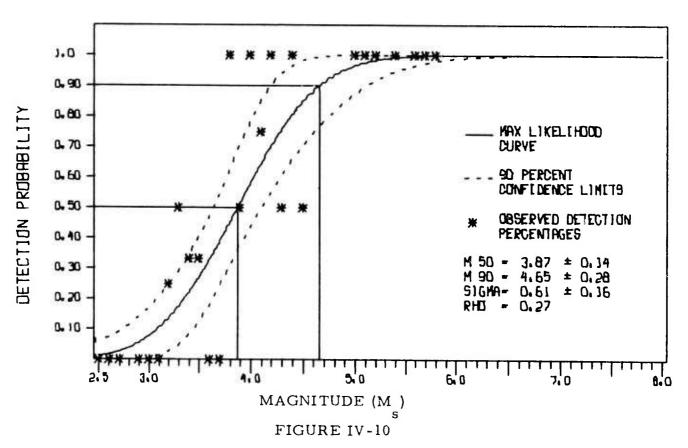
DETECTION STATISTICS FOR KIP RELATIVE TO ALPA AND NORSAR M VALUES



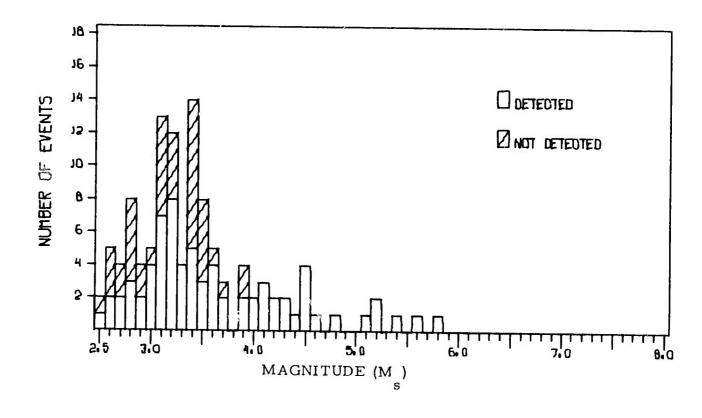


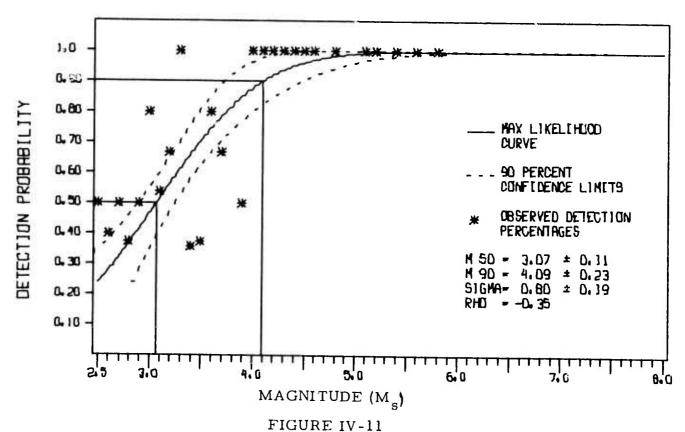
DETECTION STATISTICS FOR ALQ RELATIVE TO ALPA AND NORSAR M  $_{_{\rm S}}$  VALUES





DETECTION STATISTICS FOR ZLP RELATIVE TO ALPA AND NORSAR M VALUES  $_{\mbox{\scriptsize s}}$ 





DETECTION STATISTICS FOR MAT RELATIVE TO ALPA AND NORSAR M VALUES

It should be noted that the ALPA and NORSAR M<sub>s</sub> estimates can not be considered as "true" event surface-wave magnitudes (i.e., "true" event magnitudes, most generally, are averages over many stations) and as such, all source, path, and station effects are present. Therefore, these direct detectability estimates do not and should not necessarily compare to those derived indirectly by extrapolation.

In this regard, we show M<sub>S</sub> (20) NORSAR versus M<sub>S</sub> (20) ALPA (Figure IV-12). These data indicate that M<sub>S</sub> (20) NORSAR is on the average 0.28 magnitude units greater than M<sub>S</sub> (20) ALPA (i.e., Table IV-2, the difference between centers of mass = 0.28). Further, at low magnitudes we observed that the data points (Figure IV-12) indicate a steeper slope than that for higher magnitudes. Clearly, the calculation and application of simple station corrections will not adequately compensate or correct these data to form a base of "true" surface-wave magnitudes.

In order to approximate a base of "true" surface-wave magnitudes, we determined station-path corrections for ALPA and NORSAR relative to the mean network relationship of  $M_s = 0.97 \, m_b - 0.65$  (see Section III, Table III-2). We selected this  $M_s - m_b$  relationship for the following reasons:

It is the mean M<sub>s</sub> - m<sub>b</sub> relationship for the VLPE network determined with two or more station M<sub>s</sub> values. Thus, after forming the corrected base of M<sub>s</sub> values, the corrected detectability values can be compared with the indirect detectability estimates (i.e., extrapolation from m<sub>b</sub> detectability curves).

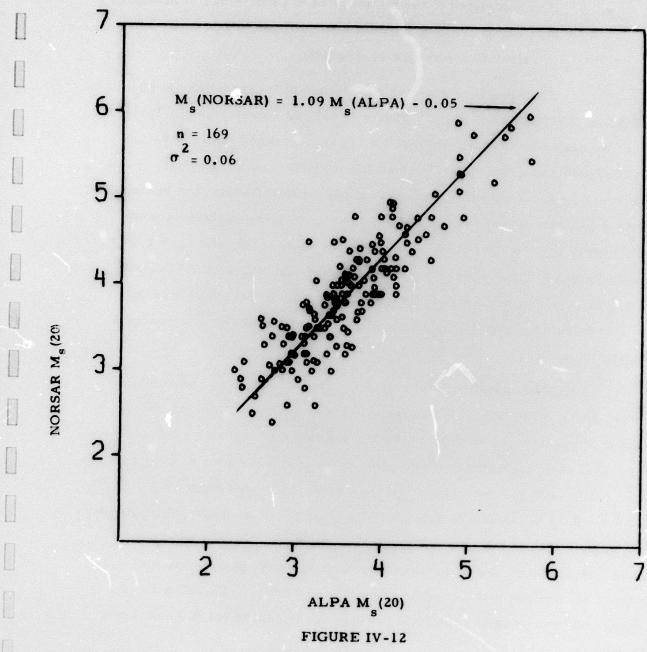


FIGURE IV-12  $M_s$  (NORSAR) VFRSUS  $M_s$  (ALPA)

It is restricted to the  $m_b$  range of  $4.2 \le m_b \le 5.5$  to minimize bias due to noise and still allow a sufficient amount of data to calculate the needed corrections.

The results of applying the station-path corrections to M s (ALPA and NORSAR) are shown in Figure IV-13 and summarized in Table IV-2. We observed that the variance ( $\sigma^2$ ) has decreased significantly and the difference between centers of mass is essentially zero. Further, the data points appear to lie more uniformly along the best fit line than in the previous example (Figure IV-12). Comparative distribution histograms are shown in Section V. Figure V-2 shows the number of events per 0.1 magnitude unit for the uncorrected surface-wave magnitudes and Figure V-3 shows the same information for the corrected surface-wave magnitudes. The corrected magnitudes (Figure V-3) do yield a smoother, more normal distribution picture.

The results of applying the maximum likelihood detectability method to the VLPE stations relative to the new base of  $M_{_{\rm S}}$  values are given in Figures IV-14 through IV-24 and summarized in Table IV-1. The 50 percent detection estimates are given with reasonably good confidence ( $\sigma < 0.10$ ), with the exception of stations FBK, ZLP, and MAT where  $0.10 < \sigma < 0.13~M_{_{\rm S}}$  units are observed. In general, these detectability results have slightly less error than the previous estimates using the uncorrected  $M_{_{\rm S}}$  base. As expected, the 50 percent detectability levels now compare closely to those determined indirectly by Lambert, et al. (1973). Specifically, the average 50 percent level of 3.70 is in close agreement to the 3.73 reported by Lambert, et al. (1973).

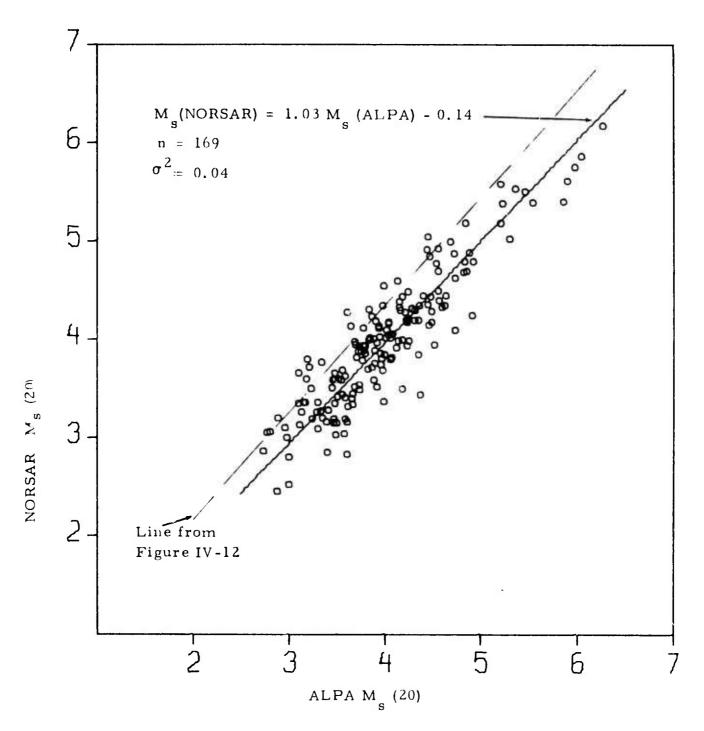


FIGURE IV-13

M (NORSAR) VERSUS M (ALPA)

WITH STATION-PATH CORRECTIONS

#### TABLE IV-2

# BEST FIT LINE PARAMETERS FOR $M_s$ (NORSAR) VERSUS $M_s$ (ALPA) WITH AND WITHOUT STATION-PATH $M_s$ CORRECTIONS

 $M_s$  (NORSAR) VERSUS  $M_s$  (ALPA) AT T = 20 SECONDS

Number	Center o	f Mass			
	M <sub>s</sub> (A)	M <sub>s</sub> (N)	SLP	В	$\sigma^2$
169	3.62	3.90	1.09	-0.05	0.06

# $M_s$ (NORSAR) + STATION PATH CORRECTION VERSUS $M_s$ (ALPA)+ STATION PATH CORRECTION AT

T = 20 SECONDS

Number	M <sub>s</sub> (A)	M <sub>s</sub> (N)	SLP	В	σ <sup>2</sup>
169	4.00	3.98	1.03	-0.14	0.04

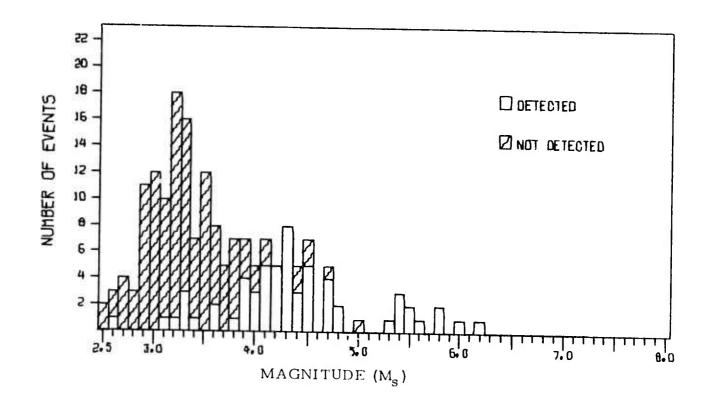
 $M_s(A) = M_s at ALPA$ 

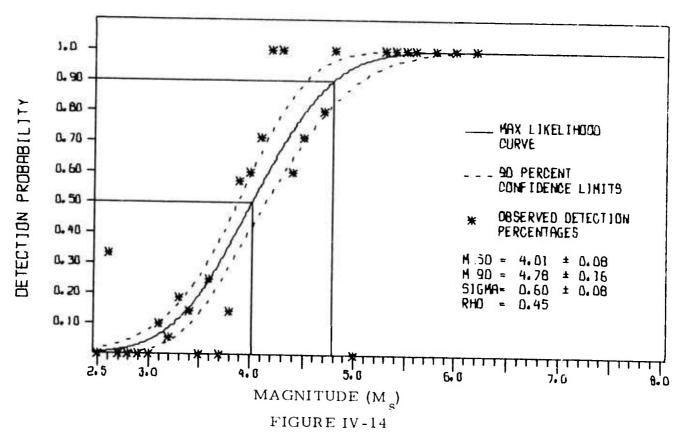
 $M_s(N) = M_s at NORSAR$ 

SLP = Slope

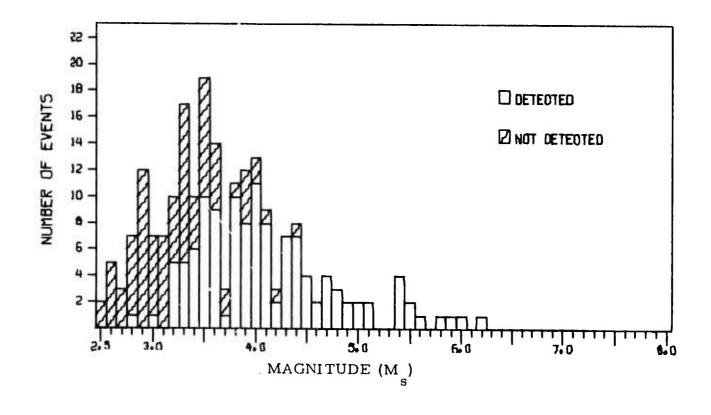
B = Intercept

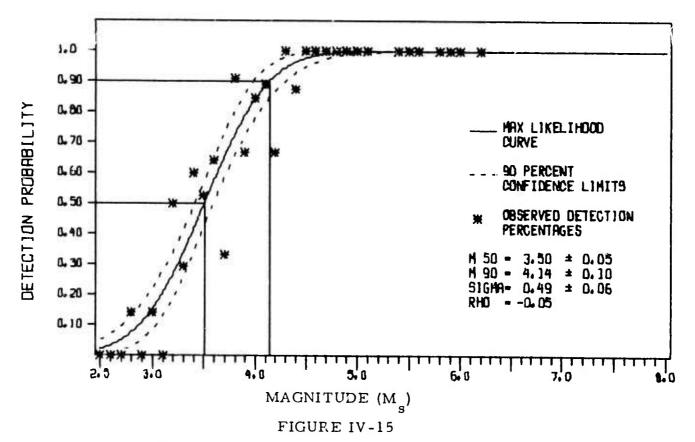
 $\sigma^2$  = Variance



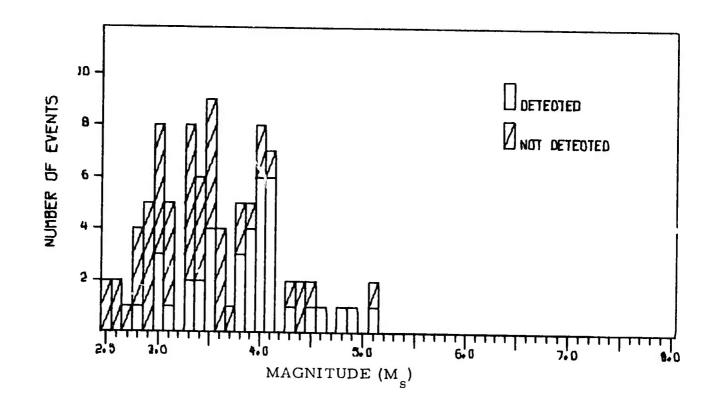


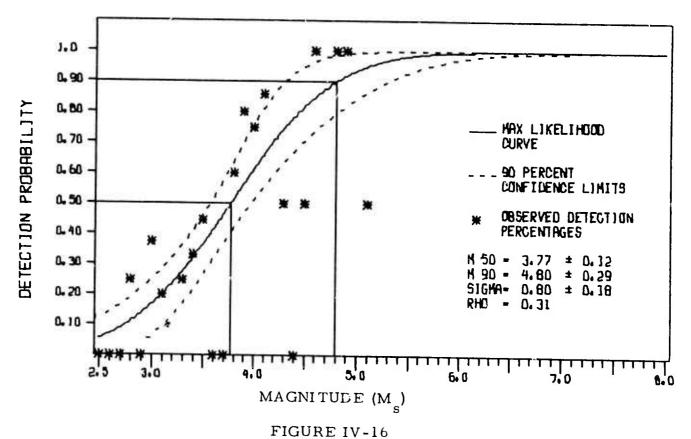
DETECTION STATISTICS FOR CTA RELATIVE TO CORRECTED ALPA AND NORSAR M  $_{\rm s}$  VALUES



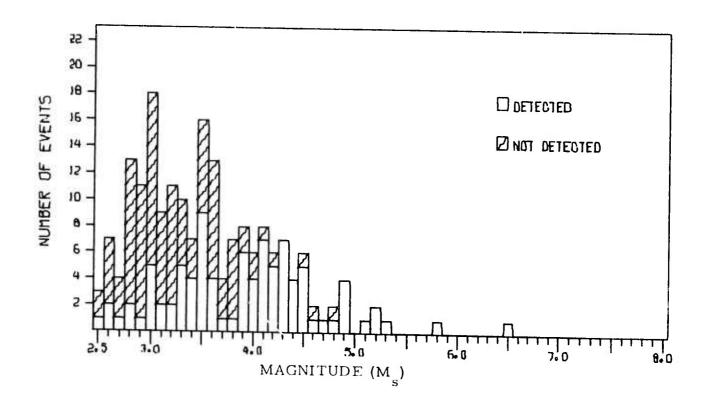


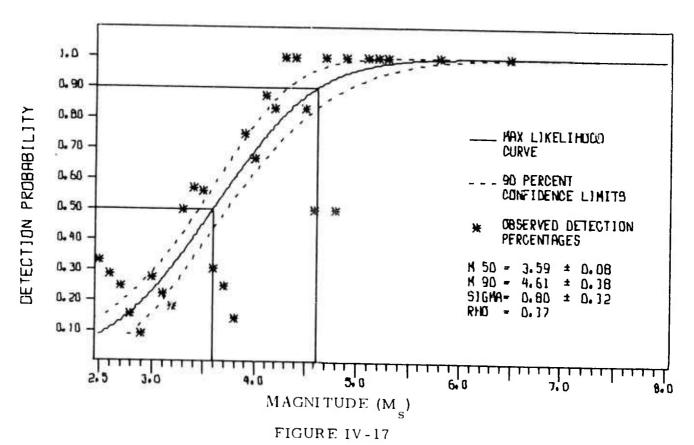
DETECTION STATISTICS FOR CHG RELATIVE TO CORRECTED ALPA AND NORSAR M  $_{\rm s}$  VALUES



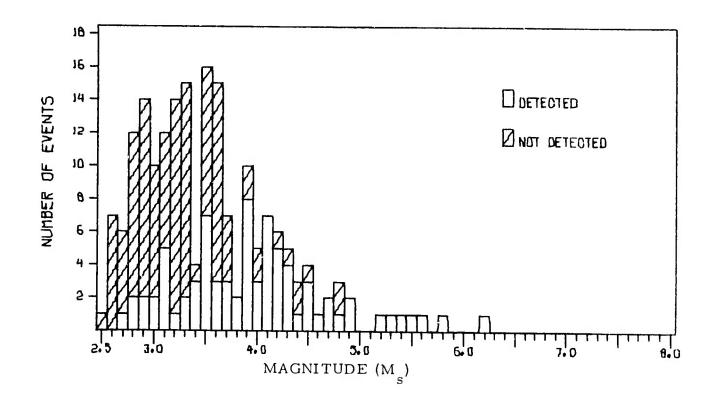


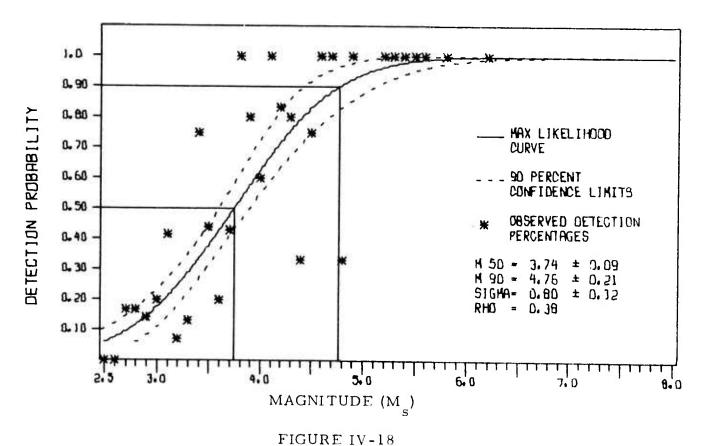
DETECTION STATISTICS FOR FBK RFI ATIVE
TO CORRECTED ALPA AND NORSAR M VALUES



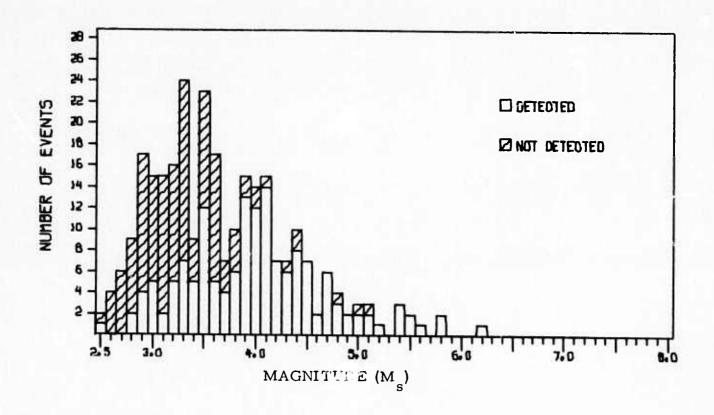


DETECTION STATISTICS FOR TLO RELATIVE TO CORRECTED ALPA AND NORSAR M  $_{\rm s}$  VALUES





DETECTION STATISTICS FOR EIL RELATIVE
TO CORRECTED ALPA AND NORSAR M VALUES



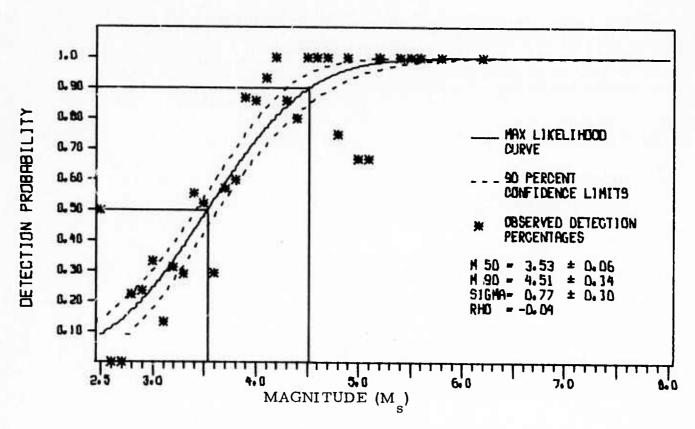
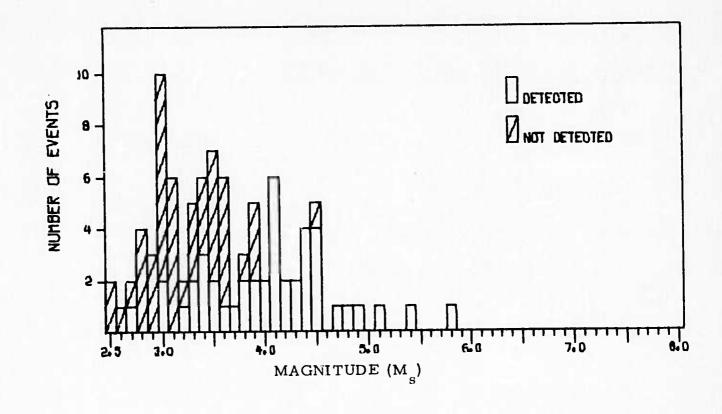
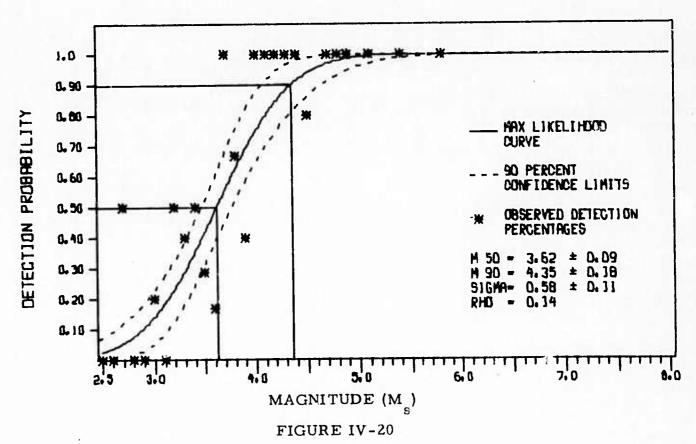


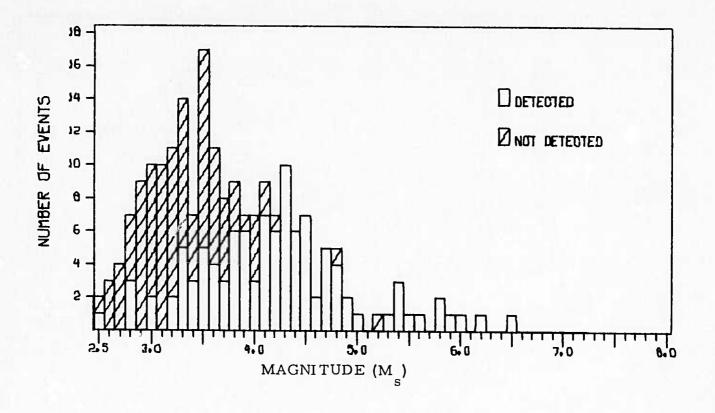
FIGURE IV-19

DETECTION STATISTICS FOR KON RELATIVE TO CORRECTED ALPA AND NORSAR M VALUES





DETECTION STATISTICS FOR OGD RELATIVE TO CORRECTED ALPA AND NORSAR M VALUES



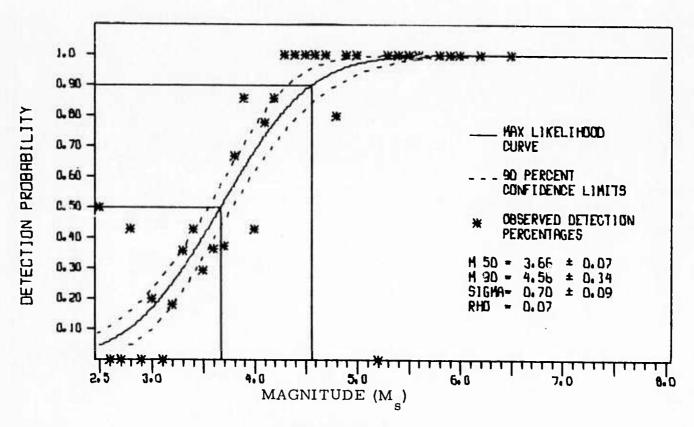
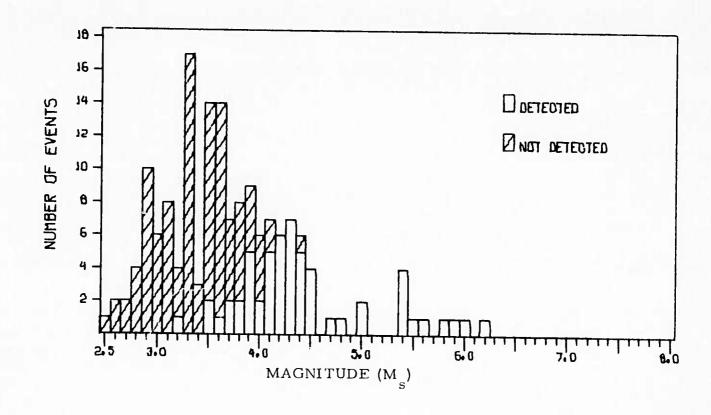


FIGURE IV-21

DETECTION STATISTICS FOR KIP RELATIVE
TO CORRECTED ALPA AND NORSAR M VALUES



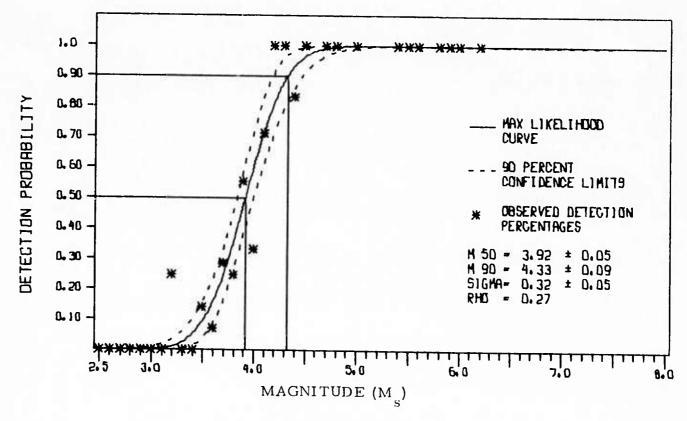
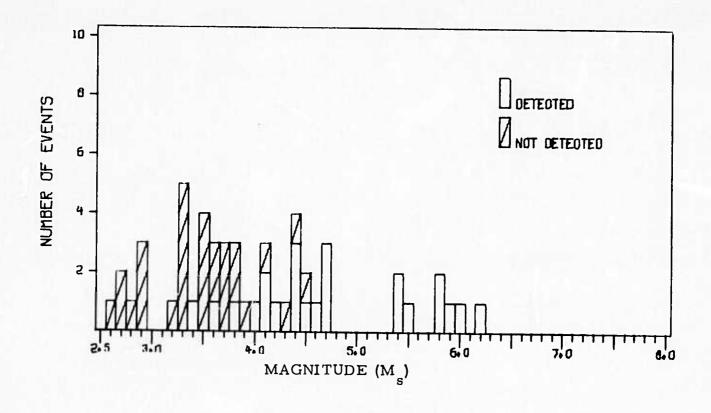


FIGURE IV-22

DETECTION STATISTICS FOR ALQ RELATIVE TO CORRECTED ALPA AND NORSAR M  $_{_{\rm S}}$  VALUES



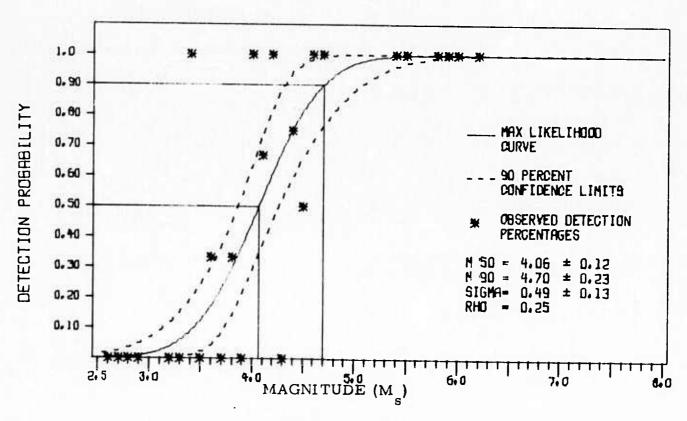
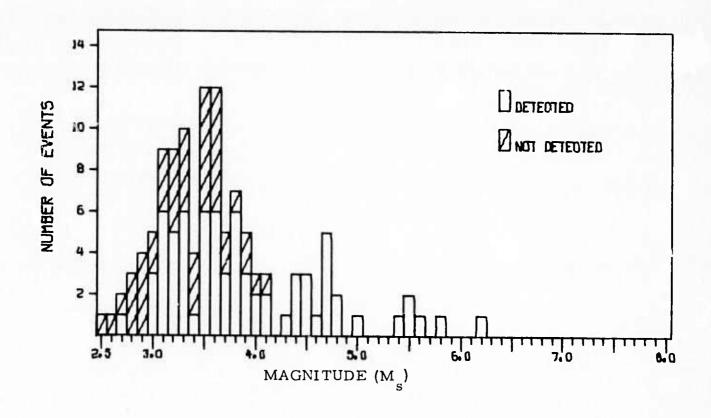


FIGURE IV-23

DETECTION STATISTICS FOR ZLP RELATIVE TO CORRECTED ALPA AND NORSAR M VALUES



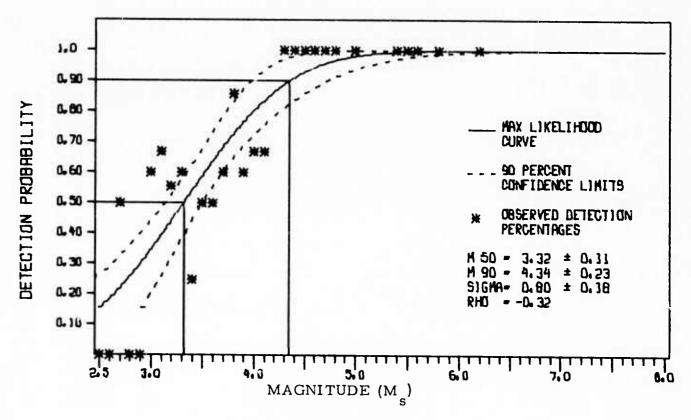


FIGURE IV-24

DETECTION STATISTICS FOR MAT RELATIVE TO CORRECTED ALPA AND NORSAR M  $_{\rm S}$  VALUES

Unger (1974), from VLPE noise measurements, estimated the 50 percent detection thresholds for several VLPE sites. Briefly, he developed and applied the method of estimating detection capabilities based on the ambient noise levels at a station (Lacoss, 1969; Harley, 1971; Harley and Heiting, 1972). These estimates also compare well with those determined directly (Table IV-1).

#### C. DISCUSSION AND SUMMARY

We find the 50 percent Gaussian probabilities ( $x_{50}$ ) of detection in good agreement with those estimated from ambient noise (Unger, 1974). The 90 percent Gaussian probability ( $x_{90}$ ) of detection (i.e.,  $x_{90} = x_{50} + 1.28 \sigma$ ) is difficult to estimate since  $\sigma$  is influenced by many factors. These factors include such items as:

- epicentral distance variance
- signal period variance
- noise amplitude variance
- station magnitude variance
- propagation path variance
- and instrumental response variations (especially important here due to possible VLPE response variations).

The 90 percent M<sub>S</sub> detection thresholds estimated directly (from corrected ALPA and NORSAR M<sub>S</sub> values) and reported here, are on the average 0.31 M<sub>S</sub> units greater than those reported by Lambert, et al. (1973). We believe these direct detectability values and corresponding  $\sigma$ 's to be too large for the following reasons:

- Unger (1974) considered all of the listed variances that effect  $\sigma$  and estimated that  $0.39 \le \sigma \le 0.55$ .
- Lambert, et al. (1973) determined an average  $\sigma$  of about 0.40 between stations for various events. It should be emphasized that this value ( $\overline{\sigma} = 0.40$ ) is the standard deviation of the estimated "true" event  $M_s$  rather than the standard deviation among various equal sized events observed at one station. However, we believe that  $\overline{\sigma} = 0.40$  is a reasonable estimate since all of the parameter variances affecting this estimate will affect the latter one.
- In many examples (Figure IV-14 through IV-24) the distribution of detection versus no detection decisions, does not appear to approximate normality. That is, there are too few low and high magnitude events as well as scatter to clearly define the Gaussian curve fit in these magnitude ranges. The exceptions to this statement occur at CHG and ALQ (Figures IV-15 and IV-22). Here, the σ's are 0.49 and 0.32, respectively, and the 90 percent detection threshold standard deviation is less than 0.10.

All of the single station detectability results are summarized in Table IV-1. The 50 percent detection threshold for the eleven VLPE stations is on the average  $m_b$ =4.58 and  $M_s$ =3.70. Strauss (1975) indicates that the 50 percent detection threshold for ALPA is  $m_b$ =3.93 with an average of 14 operational seismometers. Assuming the  $\sqrt{n}$  improvement (n=number of seismometers) concept, the 50 percent detection threshold for a single instrument at ALPA is  $m_b$ =4.50 (i. e. 3.93 + log  $\sqrt{14}$  = 4.50). Thus, these results are closely comparable to each other. A similar comparison can be made for NORSAR. Here, the 50 percent level is  $m_b$ =3.76 (Laun, et al., 1973) having on the average 18 sites operational. Again, assuming the  $\sqrt{n}$  improve-

ment concept, the 50 percent level for a single site at NORSAR is  $m_b$ =4.39. Although this value doesn't compare as closely to the average of the VLPE stations, it does compare closely to that of KON ( $m_b$ =4.47, Table IV-1) a VLPE station located near the NORSAR complex.

#### SECTION V

# VLPE AND VLPE-ALPA-NORSAR COMBINED NETWORK DETECTION CAPABILITIES

## A. INTRODUCTION

This section presents the detection capabilities of the VLPE network, the VLPE-ALPA-NORSAR combined network, and the network mixed event probabilities.

For the network detection thresholds, we utilized the same detection concepts given in Section IV. That is, the method used for estimating detection capabilities is the maximum likelihood procedure which was briefly described in the previous section and in detail by Ringdal (1974). We estimated the surface-wave VLPE network detection capabilities on the basis of both m<sub>b</sub> and M<sub>s</sub> where the M<sub>s</sub> base values were those observed at ALPA and NORSAR. However, for the VLPE-ALPA-NORSAR combined network, we estimated the detection probabilities in terms of m<sub>b</sub> only, since no other base of common event M<sub>s</sub> values were available having a lower detection threshold than the combined network.

Finally, in part C of this section we present the VLPE network mixed event probabilities.

# B. RESULTS OF DETECTABILITY ESTIMATES

### 1. VLPE Networks

Detection statistics for the VLPE network were computed in terms of  $m_{\tilde{b}}$  and  $M_{\tilde{g}}$  and are summarized in Table V-1. The results are presented in Figures V-1 through V-3 for those events where at least one

TABLE V-1 NETWORK DETECTION THRESHOLDS IN TERMS OF  $m_{\rm b}$  AND  $M_{\rm s}$ 

NETWORK*	m <sub>b</sub>			Ms			M Corrected for Station-Path		
	50%	90%	σ	50%	90%	σ	50%	90%	σ
$ \begin{array}{c} \text{All } \Lambda \\ \text{NET } 1 < 50^{\circ} \\ > 50^{\circ} \end{array} $	4.17 4.18 4.55	5. 15 5. 21 5. 32	0.76 0.80 0.60	3.00 2.98 3.48	4.03 4.01 4.32	0.80 0.80 0.65	3.18 3.16 3.64	4. 21 4. 18 4. 44	0.80 0.80 0.62
$ \begin{array}{c} \text{All } \Lambda \\ \text{NET } 2 < 50^{\circ} \\ > 50^{\circ} \end{array} $	4.55 4.45 4.76	5. 23 5. 11 5. 40	0.53 0.51 0.50	3.47 3.33 3.78	4. 29 4. 36 4. 46	0.64 0.80 0.53	3. 62 3. 45 3, 96	4.37 4.09 4.64	0.58 0.50 0.53
All $\Lambda$ FNET 1 < 50° $>$ 50°	3.62 3.63 3.79	4.65 4.66 4.77	0.80 0.80 0.76				3,73	1.04	0.93
$\begin{array}{c} A11 \Lambda \\ \text{CNET 2} < 50^{\circ} \\ > 50^{\circ} \end{array}$	4.11 4.07 4.25	4. 97 5. 10 5. 16	0.67 0.80 0.71						

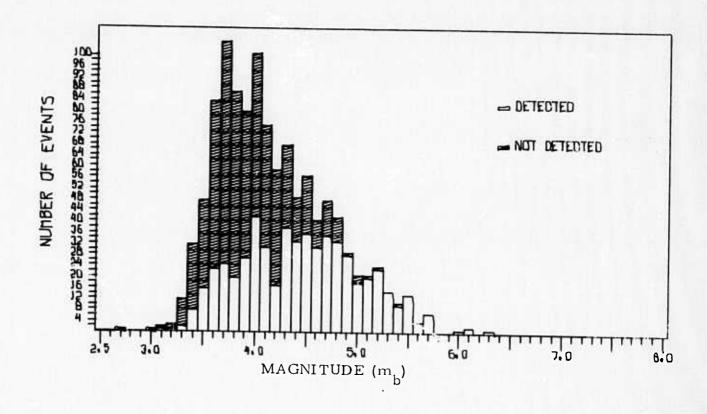
NET 1 = VLPE, 1 or more stations operational and 1 station required for detection.

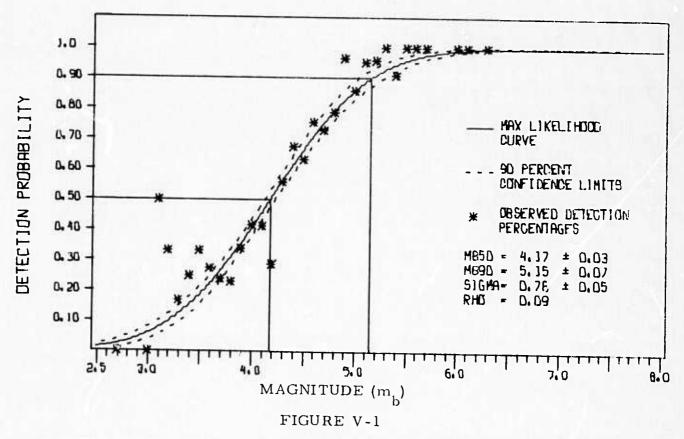
NET 2 = VLPE, 2 or more stations operational and 2 stations required for detection.

TNET = VLPE, ALPA and NORSAR combined network.

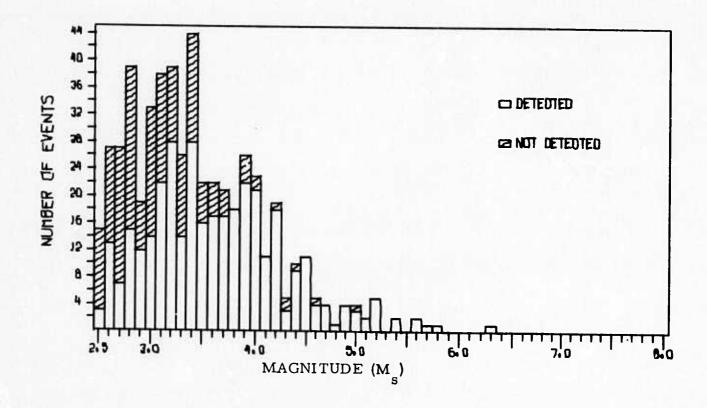
TNET 1 = 1 or more stations operational and 1 station required for detection.

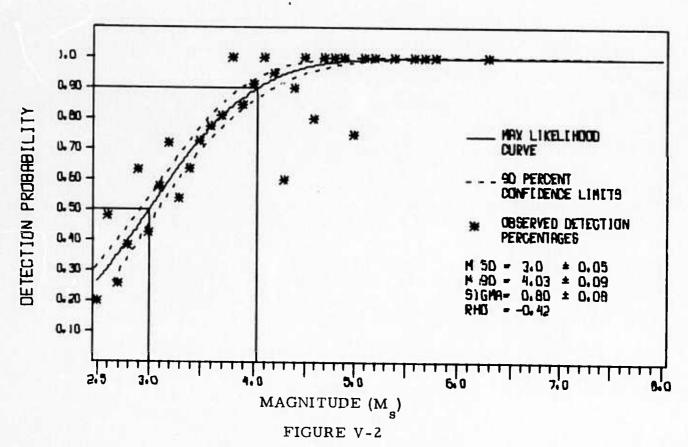
TNET 2 = 2 or more stations operational and 2 stations required for detection.



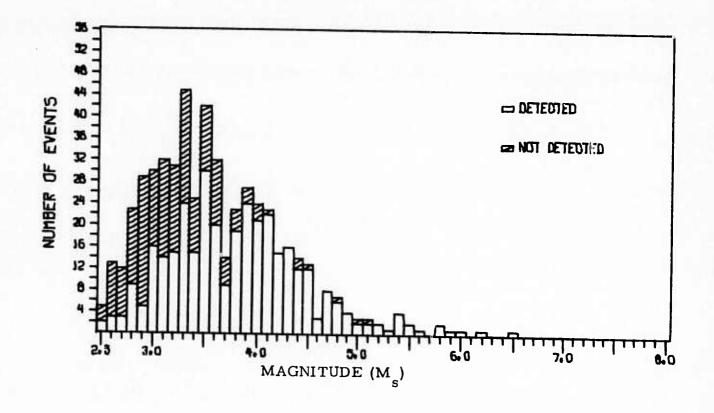


DETECTION STATISTICS FOR THE VLPE NETWORK WITH AT LEAST ONE OPERATIONAL STATION AND IN TERMS OF  $\rm m_{b}$ 





DETECTION STATISTICS FOR THE VLPE NETWORK WITH AT LEAST ONE OPERATIONAL STATION AND IN TERMS OF ALPA AND NORSAR M VALUES



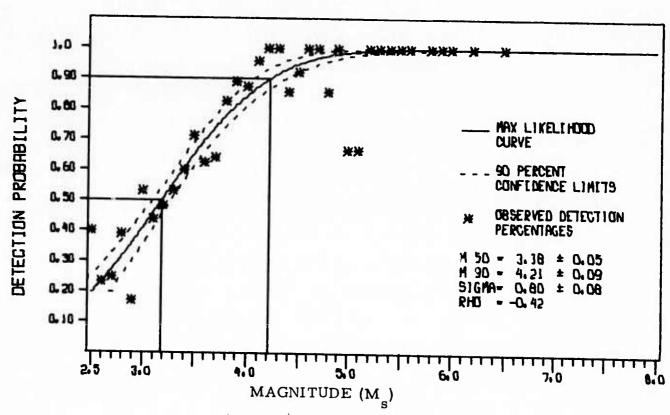


FIGURE V-3
DETECTION STATISTICS FOR THE VLPE NETWORK WITH AT LEAST ONE
OPERATIONAL STATION AND IN TERMS OF CORRECTED ALPA AND NORSAR
M VALUES

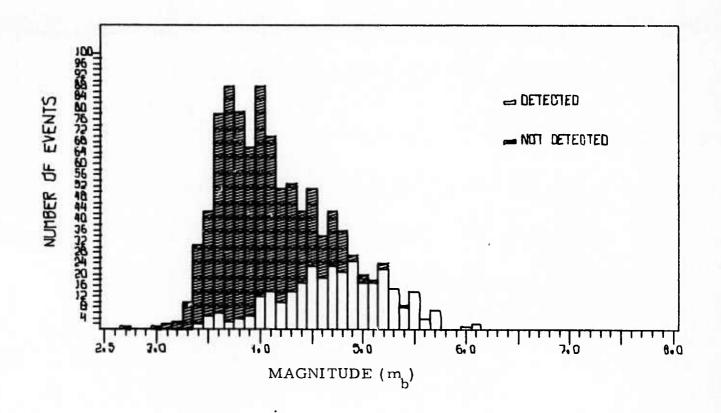
station in the network was operational (i.e., events were deleted where all channels were malfunctioning or contained mixed signals).

Figure V-1 shows the network statistics in terms of  $m_b$ . The 50 and 90 percent detection estimates of 4.17 and 5.15 compare closely  $(\pm~0.07~m_b~units)$  to the average of those previously determined for three VLPE networks (Lambert, et al., 1973).

Figure V-2 shows the network statistics in terms of  $\rm M_{_S}$  (i.e., the VLPE network relative to ALPA-NORSAR  $\rm M_{_S}$  values). The network detectabilities estimated here are about 0.30  $\rm M_{_S}$  units lower than those reported by Lambert, et al. We previously indicated in Section IV that these ALPA and NORSAR  $\rm M_{_S}$  base values could not be considered as "true" event magnitudes and as such these direct detectability estimates should not necessarily compare to those derived indirectly by extrapolation.

Figure V-3 shows the network statistics in terms of corrected M<sub>S</sub> (i.e., relative to the ALPA-NORSAR M<sub>S</sub> values corrected for station-path effects as described in Section IV). Ine 50 percent M<sub>S</sub> detection estimate of 3.18 compares closely to that estimated indirectly (extrapolated from m<sub>b</sub> detectability estimates) by Lambert, et al., and similar to the previously observed results for the single station 90 percent estimates (Section IV), the network 90 percent estimate of 4.03 is also greater (0.24 M<sub>S</sub> units) than that reported by Lambert, et al. We discussed the difficulty of estimating the 90 percent threshold in the previous section (Section IV). However, both the 50 and 90 percent detectability estimates are given with good confidence since the standard deviation of these estimates was less than 0.10 M<sub>S</sub> units. Separate statistics were computed for all events within 50 degrees epicentral distance as well as for events at greater than 50 degrees distance. These results are summarized in Table V-1.

Figures V-4 through V-6 show the VLPE network detectability



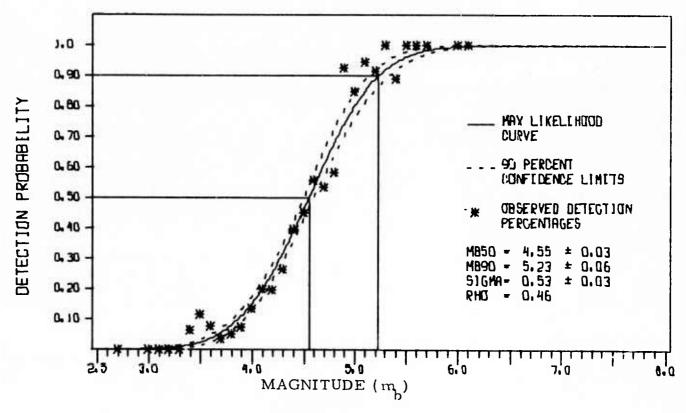
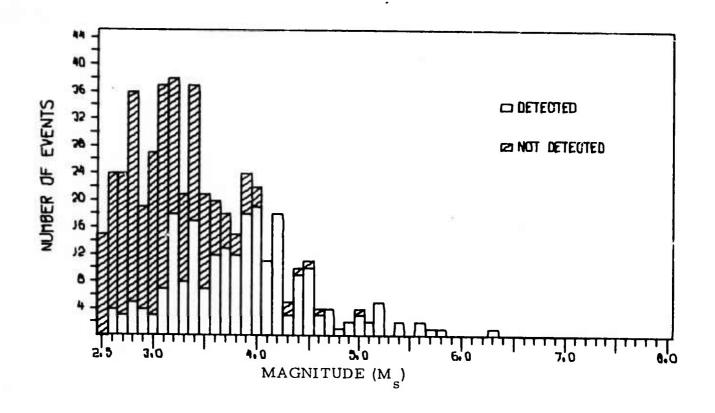
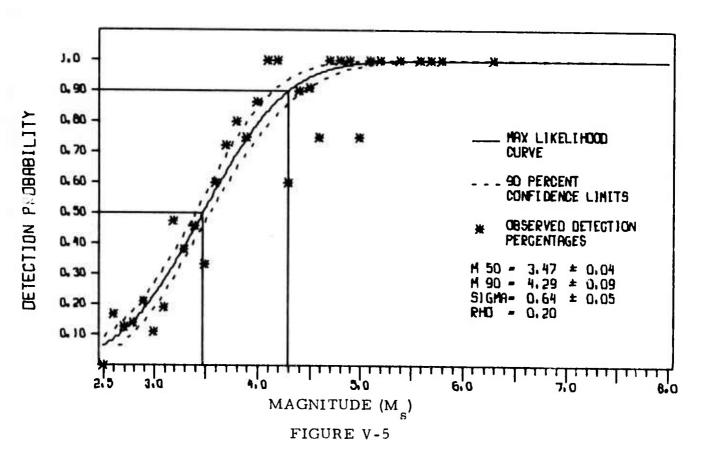
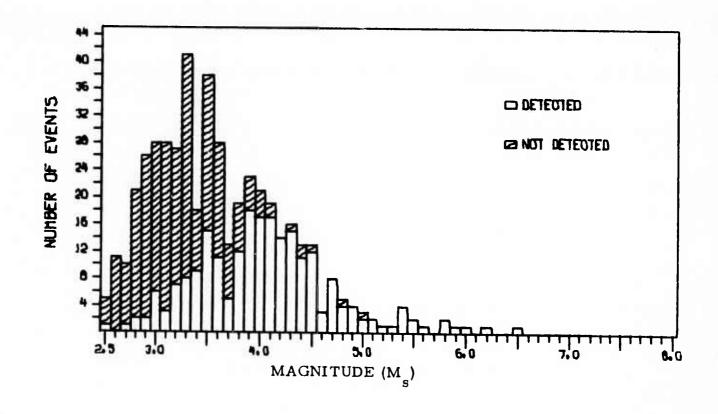


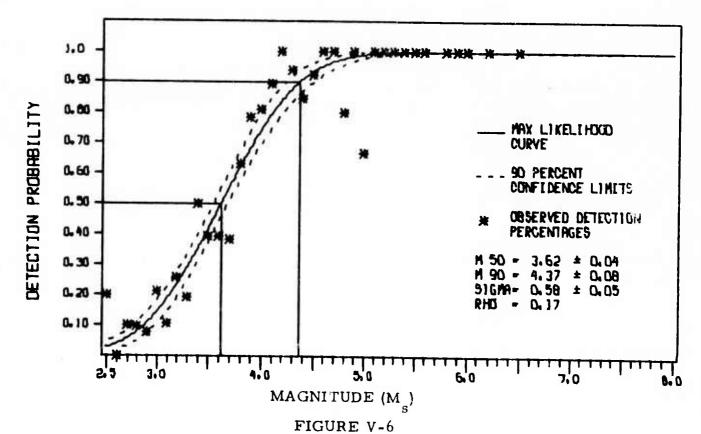
FIGURE V-4 DETECTION STATISTICS FOR THE VLPE NETWORK WITH AT LEAST TWO OPERATIONAL STATIONS AND IN TERMS OF  $\ensuremath{\mathsf{m}}_b$ 





DETECTION STATISTICS FOR VLPE NETWORK WITH AT LEAST TWO OPERATIONAL STATIONS AND IN TERMS OF ALPA AND NORSAR M  $_{_{\rm S}}$  VALUES





DETECTION STATISTICS FOR THE VLPE NETWORK WITH AT LEAST TWO OPERATIONAL STATIONS AND IN TERMS OF CORRECTED ALPA AND NORSAR M  $_{\rm S}$  VALUES

estimates where we required at least two operational stations and two stations detecting for a detection decision. From Wirth (1971) we expect a significant increase in the 50 percent detection threshold and a comparatively smaller increase in the 90 percent detection threshold, relative to the detectability of networks requiring at least one operational station. The 50 and 90 percent thresholds are about 0.48 and 0.11 greater respectively, than those for the one station network and thus are as expected.

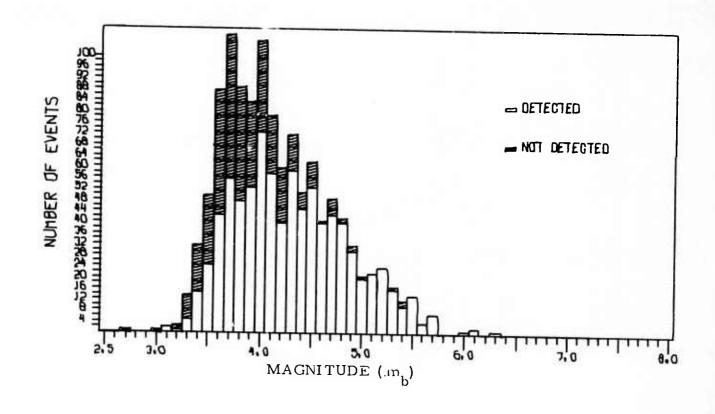
Separate statistics were also computed for epicentral distances within 50 degrees as well as for distances greater than 50 degrees. All results are given with good confidence (0.10< $\sigma$ ) and summarized in Table V-1.

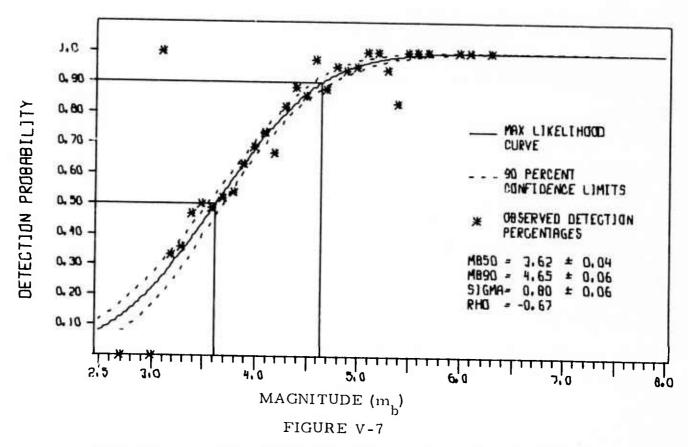
#### 2. VLPE- ALPA-NORSAR Combined Networks

Figures V-7 and V-8 show the maximum likelihood detectability estimates for the VLPE-ALPA-NORSAR combined network in terms of  $m_b$ . The addition of ALPA and NORSAR detection statistics to the VLPE network statistics to form the combined network lowers the detection thresholds significantly ( $\approx 0.50~m_b$  units). When compared to ALPA and NORSAR alone, the 50 percent detection level of the combined network is decreased by about 0.40  $m_b$  units.

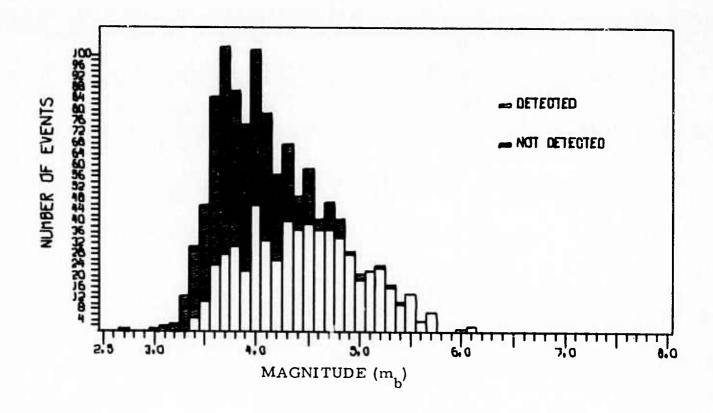
Separate detection statistics were computed for epicentral distances at less than 50 degrees as well as for distances greater than 50 degrees. All results are given with good confidence  $(0.07 < \sigma)$  and summarized in Table V-1.

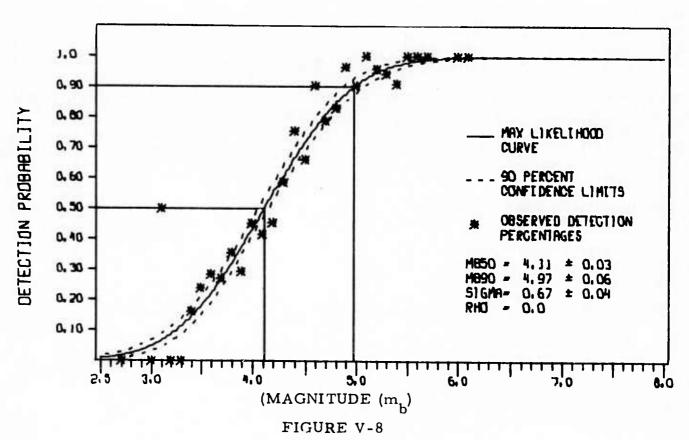
It should be noted that all curves fit the data closely and the 90 percent confidence intervals are very small. We conclude that these detectability estimates are good estimates.





DETECTION STATISTICS FOR THE VLPE-ALPA-NORSAR COMBINED NETWORK WITH AT LEAST ONE OPERATIONAL STATION





DETECTION STATISTICS FOR THE VLPE-ALPA-NORSAR COMBINED NETWORK WITH AT LEAST TWO OPERATIONAL STATIONS

## C. MIXED EVENT PROBABILITIES

An event signal is first considered to be mixed when one or more dispersed signals overlap the desired event velocity window. If it is not possible to resolve which signal corresponds to the desired event, then the event is classified and recorded as mixed.

Table V-2 displays the VLPE mixed event results. We note that for N = 0 the values indicated for i = 1, 2, ... 7 are to be interpreted as the probabilities that i stations will not perceive a given event to be mixed. For example, when i = 3 we have the value 0.57 (with N = 0). This declares that 57% of the events with 3 operational stations will not be mixed on the same 3 stations. To convert percentages to probabilities we assume a uniform random distribution. Also, only stations having signal detections, nondetections or mixed signal detections are regarded as operational. Examining the table further we conclude the following:

- Based on 1252 events with at least one operational station, the probability is 0.22 that a given event appears as a mixed signal at some station. Conversely, the probability that it is not mixed is 0.78.
- 132 events had 6 operational stations (as compared to 40 events for the previous data base). The probability that 6 of these stations will perceive a given event as mixed is 0.07.

The number of events which were regarded as mixed by all operational stations in the network was 74. Since there was a total of 1252 events examined, we conclude that the probability of an event being mixed at all stations is 0.06.

TABLE V-2
VLPE NETWORK MIXED EVENT PROBABILITIES

		Number of Events with i Operational Stations												
	70	1252		1099	772	424	132	37						
	Mixed	1	2	3	4	5	6	7						
ons		0 0.78	0.73	0.57	0.53	0.58	0.58	0.59						
or star Event	nt as	1 0.22	0.19	0.27	0.22	0.17	0.11	0.10						
	Ve	2	0.08	0.08	0.12	0.10	0.09	0.03						
	the I	3		0.08	0.08	0.07	0.05	0.03						
7		1			0.05	0.06	0.08	0.07						
- Number	rceiving	5				0.02	0.02	0.00						
	9 6	)					0.07	0.10						
ţ	о 7	,						0.07						

The probability values shown under columns 6 and 7 begin to misbehave. This is the result of the small number of events with 6 or more operational stations. Previously, this point of discontinuity appeared for only 5 or more operational stations (Lambert et al., 1973). The shift results from the increase in the average number of operational stations from 3.8 to 4.0.

## SECTION VI SUMMARY AND CONCLUSIONS

#### A. INTRODUCTION

To provide an overview of the detection and discrimination capabilities of the VLPE stations and networks, we summarize from this and other reports the important results pertaining to the following subjects:

- Experimental problems and limitations.
- Long-period earth noise.
- Discrimination and detection capabilities of the VLPE single stations, VLPE network, and the VLPE-ALPA-NORSAR combined network.
- Evaluation of the chirp filter, the reference waveform matched filter, and the three-component-adaptive processor as applied to VLPE data.

## B. EXPERIMENTAL PROBLEMS AND LIMITATIONS

We encountered several important experimental problems throughout this evaluation. These are as follows:

• Unreliable VLPE station data limited the quantity and quality of the long-period data from any given station. Specifically, only about 55 percent of the available digital data tapes had usable vertical component data while only about 30 percent had usable three component data. These statistics were compiled for the period 1 January 1972 through March 1973

by Prahl (1974). This condition prevented a conclusive assessment of long-term noise trends and the detection and discrimination capabilities for specific station-source region combinations.

- A fixed set of VLPE stations recording reliable seismic data was not available for the network evaluation studies. For example, the Fairbanks station (FBK) discontinued operation sometime in April 1972, La Paz (ZLP) and Matsushiro (MAT) became operational in November and December 1972. Further, virtually all of the other stations were having intermittent operational problems during the time frame 1 January 1972 through April 1973. Tables II-1, and II-3a, II-3b summarize these statistics.
- At some stations there are indicated large instrumental gain and system response variations. Initially the system response data was supplied by the Lamont Doherty Geological Observatory and, from about mid-year 1972 to the present time, by the Albuquerque Seismological Center (ASC), Environmental Research Laboratories of the National Oceanic and Atmospheric Administration. These data are shown in Appendix II-B. Many stations show large static gain and instrumental response changes. We do not know whether these changes were made immediately before calibration by ASC personnel or whether they occurred because of natural instrumental characteristics. From our data observations and measurements we believe the latter reason to be the case.

#### C. LONG PERIOD EARTH NOISE

Recently, Prahl (1974) studied the long-period earth noise utilizing VLPE data, and included in his report is an appropriate bibliography of previous work. The data base used for analysis consisted of a total of 1503 one hour noise samples from the vertical components and 846 one hour noise samples with three component data. The important results of the study are as follows:

- 1. Vertical Component Noise Analysis
- At each of the VLPE stations, minimum RMS amplitudes of earth noise were observed in a 22 to 42 second period band and within this band the lowest noise values occurred between 25 and 35 seconds periods.
- The approximate order of the quietest to the noisiest VLPE station was: ZLP, CHG, KIP, ALQ, FBK, TLO, EIL, MAT, KON, OGD, and CTA.
- The intermittent distribution in time of the vertical component data prevented conclusive statements concerning long-term (seasonal) variations of earth noise. The exception was station KON. Here, there was a significant increase in earth noise during the winter months. Similar increases in earth noise were observed at NORSAR, (Laun, et al., 1973).
- RMS amplitudes in three period bands (17-25,20-40, and 30-40 seconds) were highly correlated. Thus, appropriate noise sources excite seismic noise in at least the entire 17 to 40 second period band.
- 2. Three Component Noise Analysis
- Horizontal RMS amplitudes were generally one to four times
   larger than the vertical RMS amplitudes. However, within the

average minimum noise band of 22-42 seconds, the horizontal component spectra were remarkably similar to vertical component spectra in amplitude, variability, and spectral shape.

- For all stations, the noise among components was only weakly coherent. This suggests that the average noise field is comprised of mainly isotropic and nonpropagating noise.
- D. DISCRIMINATION AND DETECTION CAPABILITIES OF THE VLPE, THE VLPE NETWORK, AND THE VLPE-ALPA-NORSAR COMBINED NETWORK

In this current report, we attempted to overcome the experimental difficulties discussed above, primarily by expanding the data base for the purpose of obtaining average capability estimates.

Attempts were made to analyze all available data. In order to evaluate the individual stations and network discrimination and detection capabilities by surface waves, the horizontal instruments were rotated analytically to form vertical, transverse and radial components. The seismograms were filtered in the frequency domain with a filter having a bandpass of 18 to 42 seconds and then transformed to the time domain for visual analysis that included detection of surface phases and amplitude and period measurements.

- 1. Discrimination Capabilities
  Within this experimental and analytical framework, we obtained the following discrimination capabilities:
  - Instrumental gain variations caused undue scatter in the M<sub>s</sub> estimates; and thus, separation between presumed explosions and earthquakes in terms of M<sub>s</sub> versus m<sub>b</sub> was not clear at single stations. However, separation of the presumed explosions relative to the means (best fit straight lines) of the earthquake was consistent with that observed by others.

- With the networks having two or more station estimates of M<sub>s</sub> clear separation is achieved between eastern Kazakh and Novaya Zemlya presumed explosions and earthquakes except for two eastern Kazakh events 626 and 797. Marginal separation is present for presumed Ural explosions. These results are consistent with those published by Marshall and Basham (1972).
- The VLPE network and VLPE-ALPA-NORSAR combined network M<sub>s</sub>-m<sub>b</sub> relationships (best fit straight lines) for Eurasian earthquakes agree closely to those determined by others.
- Average LQ/LR amplitude ratios (T≈30 seconds) determined from three or more values for shallow central Asian earthquakes were generally greater than 1.00. Six LQ/LR values from five eastern Kazakh presumed explosions yielded an average of 0.77. All earthquake values were greater than the 0.77 for the presumed explosions.
- We show theoretically and experimentally that over 80
  percent of all LQ/LR ratios (T = 30 seconds) will be greater than
  those observed for the presumed explosions from east Kazakh.

#### 2. Detection Capabilities

We used the maximum likelihood procedure for estimating detection capabilities of the individual VLPE station and networks. We applied the model in terms of both bodywave and surface-wave magnitudes. Detectability estimates are given relative to M<sub>s</sub> estimated from 1105 earthquakes detected at ALPA and NORSAR. In addition, these ALPA and NORSAR M<sub>s</sub> values have been corrected for station-path effects to form a base of approximately "true" M<sub>s</sub> values. The results are as follows:

- The direct single station detectability estimates for m<sub>b</sub> and M<sub>s</sub> are listed in Table IV-1. We find the 50 percent probability of detection for the single stations in good agreement to that of Lambert, et al. (1973) and that determined from ambient noise by Unger (1974). The average 50 percent detection threshold for eleven VLPE stations is m<sub>b</sub>=4.58 and M<sub>s</sub>=3.70.
- We believe that the estimated single station 90 percent detection thresholds are too high due to large σ's
   (M<sub>s</sub>(90)=M<sub>s</sub>(50) + 1.28 σ). σ is affected by such variables as: epicentral distances, signal periods, noise amplitudes, propagation paths and instrumental responses.
- The VLPE network and the VLPE-ALPA-NORSAR combined network detectability estimates are listed in Table V-1. The VLPE network 50 and 90 percent detection estimates in terms of m<sub>b</sub> of 4.17 and 5.15 compare closely (± 0.07) to the average of those previously determined for three VLPE networks (Lambert, et al., 1973).
- The VLPE network 50 percent detection threshold of 3.18 in terms of "true" M<sub>s</sub> compares closely to that estimated indirectly (extrapolated from m<sub>b</sub> detectability estimates) by Lambert, et al. (1973).
- The VLPE network 90 percent detection estimate of M = 4.21 is greater (+0.39) than that previously reported by Lambert et al.
- We observe for the VLPE-ALPA-NORSAR combined network that the 50 and 90 percent detectability estimates in terms of m<sub>b</sub> are 3.62 and 4.65. The 50 percent level of 3.62 is about 0.3 m<sub>b</sub> units lower than that observed for ALPA alone. While the 90 percent level is about the same.
- Separate network detectability estimates are determined where

we require at least two operational stations and two stations detecting for a detection decision. These statistics are also summarized in Table V-1.

- The probabilities of mixed events occurring at VLPE networks are displayed in Table V-2. Based on 1252 events with at least one operational station we classified 22 percent of the events as mixed events.
- The actual number of events that remained as mixed events for the total network was 74 and since there was a total of 1252 events examined, we conclude that the probability of an event being mixed at all stations is 0.06.
- E. EVALUATION OF THE CHIRP FILTER, THE REFERENCE WAVEFORM MATCHED FILTER AND THE THREE-COMPONENT ADAPTIVE PROCESSOR AS APPLIED TO VLPE DATA

Recently, Strauss and Tolstoy (1974), applied matched filters (chirp and reference waveform) and the Three-Component Adaptive processor to VLPE data for an event ensemble of 53 earthquakes from central Asia and 28 earthquakes from Greece - Turkey.

The important results of this study are as follows:

- For the two seismic regions considered, the chirp filter technique outperformed the other two techniques in terms of mean signal-to-noise improvements. However, the authors indicated it was not meaningful to quantify the relative performance since the standard deviations were large.
- Even though the overall mean signal-to-noise improvement may be low, the improvement in detection was good. Specifically, each of the matched filter techniques increased the number of events detected by 130 to 140 percent over those detected by the simple bandpass filter. This gives a factor of about 2.4 and

implies a reduction of 0.4 m units in the 50% detection level.

- The use of the Three-Component Adaptive processor resulted in only a 10 percent increase in the number of events detected. However, this poor performance of the processor is not due to some intrinsic flaw in the method but to the unmatched instrumental phase responses between the horizontal and vertical components of the VLPE stations.
- Determination of detection thresholds using the maximum likelihood method for either of the matched filter applications, yielded a 0.7 m<sub>b</sub> unit reduction in the network 50 percent detection level and a 0.3 m<sub>b</sub> unit reduction in the 90 percent detection level. It should be noted that for this network, it was required that at least two stations be operational and two stations detecting for a detection decision.

#### F. DISCUSSION

During the analysis of the bandpass filtered VLPE records, it was observed that for Eurasian events the largest Rayleigh wave amplitudes occurred at periods of about 20 and 30 seconds. Forty second waves were observed for some events and measured when possible. However, detection of small events was principally due to the relatively larger amplitudes at either 20 or 30 second periods. A stable earth noise minimum is present at all stations between 22 and 42 second periods. For the purpose of improving the detection capabilities of the VLPE stations, the VLPE instrumental amplitude response which now peaks at 35 to 40 second periods should be reset to peak at periods from 25 to 30 seconds.

The discrimination capabilities of the VLPE have been evaluated in terms of Love wave to Rayleigh wave amplitude ratios, surface-wave radiation patterns, and the important  $M_s$  versus  $m_b$  criterion. In general

these results were as expected and are consistent with theoretical and experimental studies by us and others.

Detection levels for single stations and various networks were determined. Single station 50 percent detectabilities are on the average m<sub>b</sub> = 4.58 and M<sub>s</sub> = 3.70. The VLPE network 50 percent detectabilities are m<sub>b</sub> = 4.17 and M<sub>s</sub> = 3.18 where one station detection is required, and for the two station detection requirement, m<sub>b</sub> = 4.55 and M<sub>s</sub> = 3.62. Combining ALPA and NORSAR with the VLPE network reduces the 50 percent m<sub>b</sub> detectabilities to 3.62 for one station detection and 4.11 for two station detection. If either of the matched filter techniques were routinely applied to the VLPE data, we would expect a further reduction in the network 50 percent detectability of 0.4 to 0.7 m<sub>b</sub> units.

For the VLPE-ALPA-NORSAR combined network with two station detection required and with routine application of either of the matched filters to the VLPE, we would expect a 50 percent detection level of  $m_b \approx 3.7$ . Extrapolation to  $M_s$  using the relationship:  $M_s = 1.18 \, m_b - 1.66$  (Table III-2 yields a 50 percent level of  $M_s \approx 2.7$ . Estimation of the 90 percent detectability level yields  $M_s \approx 3.5$  (i. e.  $M_s(90) = M_s(50) + 1.28\sigma$ ,  $\sigma = 0.67$ , Table V-1).

Thus, for such a network, we could expect discrimination with good confidence between Eurasian earthquakes and explosions utilizing the important M  $_{\rm S}$  versus m  $_{\rm b}$  criterion down to an M  $_{\rm S} \approx 3.5.$ 

The VLPE networks in this study had on the average four operational stations per event. If instead of single instruments, there had been four small arrays consisting of nine instruments, the single site 50 percent detection levels could be decreased by about 0.5 magnitude units (i.e.,  $\log \sqrt{9} = 0.48$ ), or  $m_b \approx 4.1$  and  $M_s \approx 3.2$ . Forming a network of these

small arrays and requiring two of the four for a detection decision would yield approximately the same detectability levels as for the single arrays (i.e.,  $m_h \approx 4.1$  and  $M_s \approx 3.2$ ). Application of either of the matched filters to the VLPE decreased the  $m_{\tilde{b}}^{50}$  percent detection level by 0.4 to 0.7 units. Application of matched filters to ALPA and NORSAR decreased the fifty percent detection levels by about 0.2 m units. We believe this small gain relative to the VLPE to be due to the lack of a complete and accurate measure of the seismicity for Eurasia. That is, for ALPA and NORSAR, the number of undetected events after beamforming is much smaller than the number of undetected events of equivalent magnitudes for the VLPE bandpassed results. In other words, the number of detected events with matched filters at ALPA and NORSAR is constrained or controlled by the data base. Conversely, the detection capability of the bandpassed VLPE data is so poor that there is no constraint imposed by the data base on the number of undeteced events that could possible be detected by matched filtering. Conservatively then, we can assume that matched filters will yield a further reduction in the 50 percent detection level of about 0.4  $m_b$  units. Converting to the M $_{\rm s}$  90 percent detection level in a manner similar to that discussed above for the combined VLPE-ALPA-NORSAR network, yields an  $M_g \approx 3.5$ . Therefore, four small arrays strategically located in Eurasia could be expected to have a 90 percent  $M_s$  detection level equivalent to that of the VLPE-ALPA-NORSAR combined network.

Although superficially, this hypothetical network appears no better than the VLPE-ALPA-NORSAR combined network, there would be several important advantages:

- Each of the small arrays could be located within 50 degrees epicentral distances to several seismic and aseismic regions of interest in Eurasia (Figure II-1). This could yield an additional decrease of 0.2 to 0.4 magnitude units in the detection levels at the appropriate sites.
- Small arrays would also provide opportunities to apply more sophisticated signal enhancement techniques such as: Weiner type multichannel filters, f-k spectra, and time varying adaptive filters.
- Mixed event probabilities are the same for arrays as for the single VLPE sites; and for four sites, the probability of the same event being mixed at all four stations is 0.05 (Table V-2). Thus, over a long time period, a significant number of events would appear mixed at all stations. Additional array processing such as the Adaptive Beam Forming (ABF) techniques could be applied to reduce this number.

In conclusion, we believe that a number of small arrays strategically located throughout the world would prove to be the best possible basis for a seismic surveillance system. The number and size of these arrays would, of course, be dependent upon predetermined standards and requirements.

# SECTION VII ACKNOWLEDGEMENTS

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APPENDIX II-A
EVENT LIST

FV	ENT		COORT	INATES			
NO.		О.Т.	LAT	LONG	MB		ADTAMES 1551
	-11.2.2	., • 2 •	ылт	TOMB	an		SEISMIC AREA
0001	01/01	15.04.19	59.7	153.8	4.1	L	E SIBERIA
0002	01/01	16.55.06	50.7	155.8	4.6	L	KURIL IS
0003	01/01	18.13.54	49.4	156.5	4.0	ī.	KURIL IS
0004	01/02	05.37.25	46.1	146.2	4.0	L	N W OP KURIL IS
0005	01/02	09.17.53	37.9	20.7	4.2	P	IONIAN SEA
0006	01/02	10.27.35	41.8	84.5	5.2	P	S SINKIANG PROV.
0007	01/03	06.36.38	51.6	159.4	4.8	P	
0008	01/03	19.26.43	52.0	159.0	4.5	N	OFF E COAST KAMCHATKA
0009	01/03	23.40.37	58.8	130.8	3.4	L	NEAR E COAST KAMCHATKA E RUSSTA
0010	01/04	02.29.18	55.6	161.2	4.3	L	
0011	01/04	05.08.48	22.4	122.0	4.8	P	NEAR E COAST KAMCHATKA
0012	01/04	10.42 31	55 6	163.8	4.4	L	TAIWAN REGION
0013	01/04	12, 15, 17	22 4		4.8		OFF E COAST KAMCHATKA
0014	01/04	12. 15. 17 12. 16. 39	37.4	129.2	3.9	P L	TAIWAN
0015	01/04	13.13.01	60.0				S KOREA
0016	01/05	02.16.10	113 0	147.2		L	CENTRAL RUSSTA
0017	01/05	04.57.41		16.2	4.5	P	KURIL IS
0018	01/05	12 02 54	37.8		4.0	P	
0019	01/05	12.02.54 14.26.48	56.6	169.4	4.5	L	TADZHIK SSR
0020	01/05	16.09.50	57 3	160.5	4.0	L	KOMANDORSKY IS
0021	01/06	06.30.36	40.7	72.4	3.9	L	KAMCHATKA
0022	01/06	06.33.34	23.3		4.7	P	KIRGIZ SSR
0023	01/06	09.41.33		123.4	4.7	P	TAIWAN
0024	01/07	08.04.05		50.5	5.2	P	IRAN
0025	01/07	20.37.32		72.0 45.1	3.9	N	AFGHANISTAN USSR BORDER
0026	01/08	05.35.42		119.0	4.2	L	SW RUSSTA
0027	01/08	14.32.27			4.7	N	TAIWAN REGION
0028	01/09			119.0	4.6	N	TATWAN REGION
0029	01/09			164.4	3.6	L	KOMANDORSKY
0030	01/09		45.1	163.6	4.3	L	OFF E COAST KANCHATKA
0031	01/10	05.23.52	30.0	148.4	3.8	L	KURIL IS
0032	01/10	13.56.55	20.9	120.4	5.0	P	PHILIPINE ISLANDS
0033	01/11	08.54.34	54.7		4.4		OFF E COAST KAMCHATKA
0034		15.46.45	43.4	168.2	3.9	L	KOMANDORSKY
0035		06.36.28	37.7	147.8	4.0	L	KURIL IS
0036		13.51.20		30.0	4.4	L	TURKEY
0037		20.20.15	35.0 55.6	23.5	4.9	P	CRETE
0038		20.27.39	55.5	163.9	4.8	P	OFF E COAST KANCHATKA
0039		17.24.07		163.6	4.0	L	OFF E COAST KAMCHATKA
0040	01/13	03.20.20	61.9	147.1	5.3	P	E SIBERIA
0041		22.10.04	67.5	171.5	3.9	P	CHURCHI SEA
0042	01/15	00.58.33	32.8	46.9	5.1	P	TRAN-IRAQ BORDER REGION
0043		18.07.58	49.6	155.0	3.9	L	KURIL IS
0043		20.21.50	57.4	120.7	4.7	P	E RUSSIA
0045		20.45.22	40.3	79.0	5.4	P	S. SINKIANG PROVINCE
0045	01/10	04.38.16	39.3	79.9	4.6	L	S SINKIANG PROV
0047		11.00.49	55.6	162.5	3.8	L	NEAR E COAST KAMCHATKA
0048		05.54.20	55.6	163.2	3.9	L	OFF E COAST KANCHATKA
0040	01/1/	VD. D4.20	34.5	26.5	4.1	L	CRETE

EV	RNT		COORD	INATES			
NO.	DATE	O.T.	LAT	LONG	MB		SEISMIC AREA
0049	01/18	14.02.01	44.6	149.1	4.8	P	KURIL IS REGION
0050		21.12.02			4.9	P	NW IRAN
0051				8.2	4.1	P	N ITALY
0052	01/20	02.15.07	36.6	27.1	4.8	P	DODECANESE ISLANDS
0053	01/21	23.30.46	43.2	45.3	3.8	L	E CAUCASUS
0054	01/22	01.41.24	50.0	152.0	4.2	N	NW KURIL IS
0055	01/22	17.17.31	37.6	29.9	4.4	P	TURKEY
0056		08.30.47		158.0	4.2	N	NE COAST KAMCHATKA
0057		05.00.37			4.0	L	NEAR E COAST KAMCHATKA
0058		12.39.29			4.0	L	NEAR E COAST KAMCHATKA
0059	01/25	10.02.40	53.9	160.9	4.6	P	NEAR E COAST KAMCHATKA
0060	01/25	20.24.39	43.8	13.4	4.5	P	CENTRAL ITALY
0061	01/25	21.03.00	22.5		4.8	P	TAIWAN
0062	01/25	23.00.39	22.3	122.4	4.6	P	TAIWAN REGION
0063		23.22.17		13.4	4.8	P	CENTRAL ITALY
0064		04.34.27		156.9	4.1	L	KAMCHATKA
0065			55.8		3.8	L	KOMANDORSKY
0066		09.20.17		155.9	4.1	L	KURILE IS
0067	01/26	12.11.11	47.1		3.2	L	SAKHALIN
0068	01/26	12.54.39	34.5	25.5	4.0	I.	CRETE
0069		15.56.27		155.9	4.8	L	KURTLE TS
0070		14.06.46		163.6	3.8	L	OFF E COAST KAMCHATKA
0071		20.37.28	55.7	162.3	3.8	L	NEAR E COAST KAMCHATKA
0072		04.22.28	27.5	126.5	4.4	L	E CHINA SEA
0073		10.26.54		66.3	5.9	P	WEST PAKISTAN
0074		13.37.28	15.0	47.0	4.0	N	W ARABIAN PENINSULA
0075		20.29.09		81.4	4.5	L	S SINKIANG PROV
0076		20.29.19		78.0	4.4	N	KIRGTZ PROV
0077		21.54.04	45.0	136.0	4.0	N	NEAR E COAST OF F RUSSIA
0078		23.42.51			3.8	L	KURIL IS REGION
0079		06.49.11			4.7	P	KASHMIR-INDIA REGION
0080 0081		09.50.58 03.56.41			3.9	N	S. IRAN
0081		10.16.09	40.9 55.8	120.2	3.9	L	NE CHINA
0083		17.06.25		162.8	4.1	L	ECOAST KAMCHATKA
0084		04.26.59	59.3 55.7	155.7 162.0	3.6 3.7	L	EASTERN STRERTA
0085		09.58.51	46.8	146.4	3.6	L	EAST COAST OF KAMCHATKA
0086		17.56.39	50.7	160.1	3.6	L I	NW KURIL IS KURIL IS
0087		21. 19.49	38.9	21.2	4.6	P	
0088	•	02.29.22	40.7	48.4	5.1	P	GREECE P. CAUCAGUS
0089		07.22.49	23.4	102.4	4.5	P	E CAUCASUS
0090		02.42.19	43.8	13.3	4.8	p	YUANNAN PROVINCES CHINA
0091		03.34.56	51.4	118.0	4.2	L	CENTRAL ITALY F LAKE BAIKAL
0091		04.40.50	43.9	13.2	4.8	P	CENTRAL ITALY
0093		07.51.14	48.3	154.2	4.8	L	KURIL IS
0094		09.18.32	43.9	13.2	4.4	P	CENTRAL ITALY
0095	•	14.08.22	30.4	84.6	5.2	P	TIBET
0096		16.33.24	14.0	51.0	4.5	N	EAST ARABIAN PENINSULA
	5 m/ 17 4			., 1 . 0		- **	PUDI BUUDITUM EDMINOUPA

PVPNT			COORDINATES				
NO.	DATE	O.T.	LAT	LONG	MR		SEISNIC AREA
							6 C
0097	02/04	17.19.52	43.8	13.3	4.4	P	CENTRAL ITALY
0098	02/04	18. 17. 30	43.8	13.4	4.8	P	CENTRAL ITALY
0039	02/04	19.02.56	43.8	13.3	4.8	P	CENTRAL ITALY
0100	02/04	19.03.08	45.1	13.2	3.6	L	NORTHERN ITALY
0101		01.26.23	43.8	13.3	4.8	P	CENTRAL ITALY
0102	02/05	03.49.45	43.2	13.7	4.4	P	CENTRAL ITALY
0103	02/05	05.05.51	43.7	13.5	4.6	P	CENTRAL ITALY
0104		07.08.13	43.9	13.3	4.7	P	CENTRAL ITALY
0105		15.14.48	43.7	13.4	4.7	P	CENTRAL ITALY
0106	02/06	01.34.22	44.0	13.2	4.9	P	ADRIATIC SEA
0107	02/06	04.29.05	29.0	89.0	4.1	N	TIBET
0108	02/06	07.30.11	41.6	82.2	4.7	P	S SINKIANG PROV. CHINA
0119		08.03.43	46.0	80.0	4.3	N	EASTERN KAZKH
0110		21.44.29	43.8	13.2	4.4	P	CENTRAL ITALY
0111		07.49.48	52.3	160.1	4.8	P	OFF E COAST OF KANCHATKA
0112		03.37.52	19.3	122.0	5.7	P	PHILIPPINE ISLANDS
0113		12.19.15	43.8	13.3	4.6	P	CENTRAL ITALY
0114		15.42.55	22.7	122.6	4.8	P	TATWAN REGION
0115		14.21.51	29.4	50.8	4.3	P	SOUTHERN IRAN
0116		05.02.57	50.0	78.9	5.5	P	EASTERN KAZAKH SSR
0117		06.49.16	29.7	50.9	4.5	P	SOUTHERN IRAN
0118		09.04.09	29.6	50.9	3.9	P	SOUTHERN IRAN
0119		16.40.16	29.5	50.9	4.1	P	SOUTHERN IRAN
0120		05.55.46	39.9	77.4	4.9	P	SOUTHERN SINKIANG PROV CHINA
0121		12.20.43	29.0	87.0	4.3	N	TIBET
0122		13.59.49	55.5	165.2	3.9	L	KORMANDORSKY
0123		21.36.17	56.1	162.9	4.6	P	NEAR E COAST OF KAMCHATKA
0124		05.24.57	43.5	147.0	3.8	I.	KURIL IS
0125		13.07.11	37.1	24.0	4.5	P	SOUTHERN GREECE
0126		22. 36.54		165.5	3.9	I.	
0127		16.45.22	45.0	153.0	4.1	1. I	KORMANDORSKY KURIL IS
0128		00.42.24	36.9	24.2	4.5	P	SOUTHERN GREECE
0129		23.19.20		80.7	4.8	P	SOUTHERN SINKIANG PROV. CHIN
0130		14.30.23	46.6	151.0	3.7	L	KURTL IS
0131		18.02.34		147.8	4.7	P	KURIL IS
0132		06.48.12	55.1	161.5		L	NEAR BAST COAST KAMCHATKA
0133		13.19.25	44.4	149.1	5.2	P	
2134		13.54.46		149.1		P	KURIL IS. KURIL IS.
0135		05.09.15	30.7	73.1			
0136		10.08.47	47.9	145.9	4.2	I	INDIA WEST PAKISTAN BORDER
1137		10.22.46	38.5	90.5		I	SEA OF OKHOTSK (D=397 KM) S. SINKIANG PROV. (D=16KM)
0138		20.06.11	50.8	141.5	4.1	ī	S. SINKIANG PROV. (D= 16KM)
0.139		22.00.59	54.4	161.3	4.8		SAKHALIN ISLAND
0140		23. 12.56	41.0	22.3		I	NEAR E COAST KANCHATKA
0141		01.14.48	36.4	70.6	4.0	Ţ	YUGOSLAVIA
0142		01.53.36	49.0	115.0	5.3	I	HINDU KUSH REGION (D=212 KM)
0143		13.39.29	56.0			Ţ	USSR MONGOLIA BORDER
0144		08. 14. 26	36.6	156.0 68.6	3.4	I	KAMCHATKA
		3.3. 1.4. Z.		00.0	4.0	•	HINDU KUSH REGION

۴V	ENT		COORD	INATES			
NO.	DATE	O.T.	LAT	LONG	MR		CEICMIG ADDA
,	D'ATT G	V.1.	14 11	[ (/)(1	7] [1		SEISMIC AREA
0145	02/23	03.07.04	43.7	148.4	4.9	T	KUDITE IS DESTON AD-44 WAY
0146		03.21.31		148.4	4.7	T	KURILE IS REGION (D=41 KM)
0147		03.42.41	43.9	148.3	4.9		KURTLE ISLANDS (D=40 KM)
0148		05.11.09		150.0	3.7	I	KURILE IS REGION (D=39 KM)
0149		09.46.50	86.0			T	KURTLE IS
0150		12.55.32	36.8	139.0	3.7	I	LOMONOSOV RIDGE
0151		14.00.49		71.5	3.8	Ţ	AFGHAN-USSR BORDER (D=177 KM)
0152		19.37.29	38.1		4.3	I	AFGHAN-USSR BORDER
0153				163.0	3.7	Ţ	OFF E COAST KAMCHATKA
0154		00.38.00		156.0	4.5	Ţ	KAMCHATKA
		01.50.05	52.0	139.0	3.7	Ţ	NEAR PAST COAST OF SIBERIA
0155		10.14.02	46.9	153.8	3.7	Ţ	KURILE ISLANDS
0156		10.19.37	49.8	155.7	5.0	T	KURILE ISLANDS
0157		10.26.51	49.7	155.0	3.6	I	KURILE IS
0.158		10.39.23	52.3	161.9	4.3	Ţ	OEC KAMCHATKA
0159		12.17.39	52.0	150.0	3.8	I	SEA OF OKHOTSK
0160		12.24.54	49.0	155.0	3.7	Ţ	KURTLE IS
0161	02/24	18.17.34	49.0	158.0	3.5	T	KURILE IS REGION
0162		19.59.29	46.0	147.0	3.8	T	NW OF KURTLE IS
0163	02/25	22.34.49	50.0	38.0	3.7	T	W RUSSTA
0164		22.43.07		156.0	4.0	7	KURTIF TSLANDS
0165		02.12.57	49.2	156.2	4.9	I	KURILE ISLANDS
0166	02/26	02.11.46	31.2	69.2	3.8	T	WEST PAKISTAN
0167	02/26	05.58.22	46.8	152.6	4.9	I	KURILE ISLANDS
0168		09.04.32		162.0	3.3	Ī	NEAR E COAST KAMCHATKA
0169		15.05.42	53.3	138.7	3.8	Ī	NEAR EAST COAST OF SIBERIA
0170		18.32.26	51.0	149.0	4.0	Ī	SEA OF OKPOTSK
0171		18.56.13	27.1	100.9	4.7	Ï	YUNNAN PROV., CHINA
0172		23.31.10		97.3	5.3	Ť	USSR-MONGOLTA RORDER
0173		08.42.59			3.3	Ť	LOMONOS CV PIDGE
0174		08.48.08		15.0	3.3	T	
0175	02/27	10.03.03		53.5	4.9	I	LOMONOSOV RIDGE
0176	02/27	10.08.16		119.0	4.1	Ţ	N. OF FRANZ JOSEF LAND
0177		11.73.19	90.0	-95.0	3.5	Ī	LAPTEV SEA
0178		14.58.33	52.0	156.7	4.5		LCMONOSOV RIDGE
0179		17.50.25	86.2	77.2		I	KAMCHATKA (D=KK KM)
0180		19.57.43	26.3		4.4	I	N. OF SEVERNAYA ZEMIYA
0181		22.15.03	55.0	121.0 93.2	4.0	I	TAWTAN REGION
0182		01.04.22			4.5	Ţ	CENTRAL RUSSIA
0183		05.18.56	46.0	148.0	4.2	T	NW OP KURILE IS
0184		11.35.31	35.7	71.4	4.2	I	AFGHAN-USSR BORDER
0185		14.49.55	56.7	163.0	4.1	Ĭ	NEAR EAST COAST OF KAMCHATKA
0186		15.44.20	54.1	160.7	3.3	I	NFC KAMCHATKA
0187			51.8	90.2	3.9	T	CENTRAL RUSSTA
		16.24.08	31.8	50.1	3.6	I	TRAN
0188		16.26.57	31.8	50.1	3.7	I	TRAN
0189		16.44.58	29.5	50.7	4.4	I	SOUTHERN IRAN (D=55 KM)
0190		17. 22.55	31.2	50.1	4.2	T	TRAN
0191		17. 32.29	43.4	132.2	4.5	Ţ	NEC EASTERN RUSSIA (D=457 KM
0192	02/28	18.08.52	31.2	48.6	3.8	T	WITRAN

EVENT		COORD	INATES				
NO.	DATE	О.Т.	LAT	LONG	M D		CETCHTC IDDI
WO.	UNIE	0.1.	LAI	LUNG	MB		SEISHIC AREA
0193	02/28	18.12.35	36.0	68.7	4.4	I	HINDU KUSH
0194		18.44.54	29.8	50.7	4.7	Ī	SOUTHERN IRAN (D=25 KM)
0195		18.47.45	27.2	53.5	3.9	Ī	S IRAN
0196		18.59.55	30.3	50.1	3.7	Ī	IRAN
0197		19.02.50	34.2	47.4	3.9	Ī	W IRAN
0198		19.04.08	32.3	50.4	3.4	Ī	TRAN
0199		19.04.57	32.3	50.4	3.3	Ī	IRAN
0200	•	19.06.57	28.2	51.2	4.4	Ī	SOUTHERN IRAN
0201		19.22.14	31.9	50.4	3.6	Ī	IRAN
0202		19.28.48	31.2	51.1	3.7	Ī	IRAN
0203		19.29.00	33.7	48.4	3.8	Ī	WESTERN IRAN
0204		19.32.19	31.3	49.7	4.2	Ī	WESTERN IRAN
0205		20.04.00	56.1	164.2	3.6	Ī	KOMANDORSKY ISLANDS
0206		23.01.26	29.8	50.4	4.2	Ī	SOUTHERN IRAN
0207		23.06.24	30.0	52.2	4.0	Ī	IRAN
0208		23.30.24	29.2	50.5	4.1	Ī	SOUTHERN IRAN
0209		23.38.33	27.9	56.8	3.7	Ī	SOUTHERN IRAN
0210		08.02.51	32.8	46.6	4.0	Ī	TRAN-IRAQ BORDER
0211		08.07.20	89.0	-51.0	3.4	Ī	LOMONOSOV RIDGE
0212		10.47.19	56.0	164.0	4.2	Ī	KOMANDORSKY IS REGION
0213		11.22.49	29.1	49.7	4.0	Ī	PERSIAN GULF
0214		19.47.58	39.0	74.0	4.0	Ī	S SINKIANG PROV
0215		23.42.40	55.6	163.2	4.1	Ī	OEC KANCHATKA
0216	•	04.26.46	53.0	160.0	3.7	Ī	NEAR E COAST KAMCHATKA
0217		05.06.22	27.0	89.0	3.9	Ī	BHUTAN
0218	-	09.51.19	87.0	99.0	3.7	Ī	N OF SEVERNAYA ZEMLYA
0219		10.25.19	55.0	163.0	3.4	Ī	OFF BAST COAST OF KANCHATKA
0220		16.58.59	51.0	162.0	3.5	Ī	OFF EAST COAST OF KANCHATKA
0221		22.30.03	41.6	23.7	3.6	Ī	GREECE-BULGARIA BORDER
0222		06.17.29	53.0	167.0	3.6	Ī	KOMANDORSKY IS REGION
0223		12.48.48	72.4	3.3	4.5	Ī	NORWEGIAN SEA
0224		14.10.13	31.6	42.1	4.0	Ī	IRAO
0225		19.57.42	43.0	76.0	3.5	Ī	ALMA ATA REGION
0226		23.09.10	44.9	148.1	4.6	Ī	KURILE ISLANDS (D=150 KM)
0227		00.39.23	53.0	159.2	4.1	Ĭ	NEC KANCHATKA
0228		02.13.11	46.6	150.6	4.6	Ī	KURILE ISLANDS (D=136 KM)
0229		05.26.53	77.8	116.7	3.8	1	LAPTEV SEA
0230		08.13.55	55.8	163.9	4.1	Ī	OEC KANCHATKA
0231		20.39.57	45.4	147.2	4.2	Ĭ	KURILE ISLANDS
0232		21.26.51	44.7	18.4	4.9	I	VNGOCT 1871 (0.30 PH)
0233	· ·	23.10.41	50.2	155.7	4.5	I	KURILE ISLANDS
0234	•	02.53.56	45.9	153.3	4.3	I	KURILE ISLANDS
0235	•	04.00.09	40.2	79.0	4.5	Ī	COUMUDDY CIMPTING DOOR
0236		08.22.16	42.1	83.3	4.4	Ī	N. SINKIANG PROV.
0237	•	14.42.05	41.0	21.0	3.6	Ī	YUGOSLAVIA
0238		18.24.11	38.3	74.0	5.1	Ī	S. SINKIANG PROV. (D= 130 KM)
0239		19.27.57	36.8	71.4	4.0	I	AFGHAN-USSR BORDER (D=227 KM
0240		19.07.43	21.0	73.0	4.0	I	INDIA
	·						

EV	ENT		COOPE	INATES			
NO.	DATE	G.T.	LAT	LONG	MB		CETCHIC ADEL
			.,	LUM	11.11		SEISMIC AREA
0241	03/06	06.05.08	53.5	160.9	3.9	I	KAMCHATKA
0242		09.59.09	45.0	150.0	3.7	1	KURILE ISLANDS
0243		18.50.18	50.2	148.8	5.4	Ī	SFA OF OKHOTSK (D=592 KM)
0244		19.13.25	56.0	140.0	4.2	ī	SEA OF OKHOTSK
0245		23.17.53	40.0	103.0	4.5	Ī	NORTHERN CHINA
0246		01.14.04	35.0	69.0	4.0	Ī	HINDU KUSH REGION (D=200 KM)
0247		05.21.21	43.0	21.0	2.7	I	YUGOSLAVIA
0248		07.09.49	28.0	56.0	4.0	Ī	SOUTHERN IRAN
0249		12.03.00	21.0	90.0	0.0	I	EAST PAKISTAN
0250		16.46.25	23.3	94.9	4.3	I	BURMA-INDIA BORDER (D=140 KM)
0251		02.38.11	51.2	151.9	4.2	I	SEA OF OKHOTSK
0252	03/08	03.51.24	49.0	157.0	4.0	I	KURILE IS REGION
0253	03/08	03.55.22	34.0	83.0	3.8	I	TIPET
0254	03/08	15.55.14	48.2	148.2	4.2	Ţ	NW OF KURILE IS. (D=334 KM)
0255		21.49.11	27.6	56.7	4.9	I	SOUTHERN IRAN (D=45 KM)
0256	03/08	22.04.02	40.8	22.8	3.5	I	BULGARIA
0257	03/09	09.13.56	51.0	157.0	3.3	T	NEAR E COAST OF KAMCHATKA
0258		23.24.05	47.0	151.0	3.0	I	KURILE IS
0259		23.46.18	53.0	162.0	3.6	I	OFF F COAST OF KAMCHATKA
0260		04.56.57	49.8	78.2	5.5	I	EASTERN KAZAKH SSR (D=OKM)
0261		06.50.18	45.1	149.5	3.7	I	KURILE ISLANDS
0262		14.36.17	33.8	72.7	4.9	I	WEST PAKISTAN (D=45 KM)
0263		15.07.30	50.0	11.0	3.8	I	GERMANY
0264		17.44.32	55.4	164.2	3.8	I	KOMANDORSKY ISLANDS
0265		03.28.59	38.0	70.0	4.2	I	AFGHANISTAN-USSR BORDER
0266		06.47.07	82.7	143.3	3.6	I	LOMONOSOV RIDGE
0267			35.0	76.0	4.1	I	EASTERN KASHMIR
0268			45.0	155.0	4.1	I	KURILE IS REGION
0269			56.0	155.0	3.8	I	KAMCHATKA
0270	03/12	17.31.12	27.9	53.4	4.1	Ī	SOUTHERN IRAN
0271		02.11.05	49.0	158.0	3.8	T	KURILE IS REGION
0272	03/13	05.49.13		70.0	4.0	Ī	AFGHANISTAN USSR BORDER
0273		09.23.29	39.3	25.6	3.8	Ī	AEGEAN SEA (D=49 KM)
0274		13.28.33	54.9	165.6	4.0	I	KOMANDORSKY ISLANDS
0275		18.27.07	34.0	83.0	4.1	I	TIBET
0276		00.40.23	17.0	94.0	3.7	Ţ	BURMA
0277		02.43.37	44.0	****	3.7	I	WESTERN IDAHO
0278		14.05.46	39.3	29.4	5.4	I	TURKEY
0279		15.47.51	39.0	126.0	3.7	I	N KOREA
0280		00.21.25	38.5	72.3	3.7	I	TADZHIK (D=140 KM)
0281		06.00.33	30.4	84.5	5.3	I	TIBET
0282		12.08.01	39.0	30.0	3.7	I	TURKEY
0283		00.04.32	39.0	105.0	3.7	I	NORTHERN CHINA
0284		00.48.05	25.7	55.7	3.6	T	EASTERN ARABIAN PENINSULA
0285		02.59.06	33.2	71.0	3.5	I	WEST PAKISTAN
0286		05.22.59	52.2	152.2	4.5	I	NW OF KURILE IS. (D=435 KM)
0287		06.35.40	27.2	57.9	3.8	T.	SOUTHERN IRAN
0288	03/16	07.52.51	36.4	82.5	3.4	T	SOUTHERN SINKIANG PROV

P	VENT		COOD				
NO.	DATE	О.Т.		DINATES			
	<i>D</i> 415	<b></b>	LAT	LONG	MB		SEISMIC AREA
0540	03/16	12.00.08	28.0	96.0	3.6	T	INDIA-CHINA BORDER REGION
0500	03/16	21.11.35	38.0	82.0	3.5	Ī	SOUTHERN STUKIANG PROV
0291	03/17	00.29.01	32.3	*****	4.1	Ī	CALTE MENTO DODDED to a min
0292	93/17	07.49.02	49.0	156.2	5.2	Ī	CALIF-MEXICO BORDER (D=8 KM)
0293	03/17	07.52.33	27.9	54.3	4.0	ī	KURILE ISLANDS
0294	13/17	09.17.11	40.1	69.7	5.2	Ť	SOUTHERN IRAN
n2ge	03/17	17.11.28	28.0	54.0	3.9	Ĭ	TADZHIK SSR (D=26 KM)
0296	03/17	23.33.37	32.0	75.0	3.5	Ţ	SOUTHERN IRAN
0297	03/18	00.41.48	46.9	143.7	5.0	Ī	KASHMIR-INDIA BORDER
0298	03/18	07.11.55	47.0	81.0	3.6	Ī	SAKHALIN ISLAND (D=405 KM)
0299	03/18	13.52.14	57.0	163.0	3.6	1000000000	FASTERN KAZAKH SSR
0300	03/18	18.29.33	50.6	156.7		I	NEAR E COAST OF KAMCHATKA
0301	03/18	19.17.25	54.0	150.0	4.7	1	KURILE ISLANDS
0302	73/18	19.54.18	41.0	72.0	3.7	I	SEA OF OKHOTSK
0303	23/19	03.34.31	42.7		3.2	I	KIRGIZ SSR
0 304	03/19	06.03.23	49.0	38.1	3.9	T	PLACK SEA
0305	03/20	08.04.48	44.0	159.0	3.6	I	KURILE ISLANDS REGION
0306	01/20	10.54.35		147.0	4.4	I	KURILF IS
0307	13/20	14.08.12	38.0 47.0	73.0	3.9	I	TADZHIK SINKIANG BORDER
0.308	03/20	20.08.31	30.0	154.0	4.0	I	KURILE IS
0300	03/20	21.47.55	40.0	61.0	3.4	Ţ	SW AFGHANISTAN
0310	06/01	20.18.13		80.0	3.4	I	SOUTHERN SINKIANG PROV
0311	96/01	01.23.26	48.0 52.0	154.0	3.9	L	KURILE ISLANDS
0312	06/01	11. 22. 15	44.0	70.0	3.6	ŗ	CENTRAL KAZAKH SSR
0313	06/01	13.44.11	39.0	103.0	3.7	N	MONGOLIA
0314	06/01	21.43.49	55.0	164.0	4.1	L	GREECE
0315	06/02	00.12.13	30.0	53.0	3.8	L	KOMANDORSKY ISLANDS
0316		11.53.07	50.0	152.0	4.1	N	SOUTHERN IRAN
0317		74.21.49	42.0	82.0	3.8	L	NW OF KURTLE ISLANDS
031R		94. 22. 16	42.0	82.0	3.8	N	SOUTHERN SINKIANG
0319	06/02	05.11.13	43.0	81.0	3.7	N	SOUTHERN SINKIANG
9320	26/02	06.30.49	42.0	81.0	3.5	N	KAZAKH-SINKIANG BORDER
0321	06/02	16.49.22	36.0	92.0	3.9	N	SOUTHERN SINKIANG
9322	06/02	20.32.55	28.4	95.9	3.7	N	"SINGHAI PROV., CHINA
0323	06/03	02.16.51	23.5	125.5	5.2	P	CHINA-INDIA BORDER
0324	06/03	19.21.30		53.0	4.2	P	SW RYUKYU ISLANDS
0325	06/04	03.37.49	30.0	54.0	4.2	N	SOUTHERN TRAN
0326	06/04	07.52.38	53.0	158.0	4.0	L	SCUTHERN TRAN
0327		12.57.33	53.0	169.0			NEAR E COAST KAMCHATKA
0.328	06/04	13.02.07	54.0	165.0		L	ROMANDORSKY ISLANDS
0.329	06/04	16.29.34	39.4	26.2	4.1	L P	KOMANDORSKY ISLANDS
0339	06/04	23. 22. 18	33.0	97.0	3.5		TUPKEY
0331	06/05	14.12.54	56.2	163.1	4.3	N	TSINGHAI PROV, CHINA
0332	05/05	10.44.59	37.8	21.4		P P	NEAR E COAST KAMCHATKA
0311	26/05	11.17.57	34.0	46.0		N	SOUTHERN GREECE
0334	16/15	11.52.53	29.8	70.3		P	IRAN-IRAO BORDER
0335	06/05	19.00.12	36.5	39.9		ı	PAKISTAN
0.336	06/06	12.04.44	44.0	148.0		L	N. OF FRANZ JOSEF LAND
					•	•	KURILE ISLANDS

FV	ENT		COORD	INATES			
NO.	DATE	О.Т.	LAT	LONG	MР		SEISMIC ARMA
	17.6.7.6		un I	T24 : 444	1117		SEISFILE ARMA
0337	06/06	06.32.10	49.0	155.0	3.6	L	KURILE ISLANDS
0338	06/06	10.43.33	55.9	163.8	4.7	P	OFF F COAST KAMCHATKA
0339	06/07	01.27.57	49.8	78.2	5.5	P	EAST KAZAKH SSR
0340		06.00.20	56.0	166.0	3.8	Ĺ	KOMANDORSKY ISLANDS
0341	06/08	09.14.08	21.1	120.2		P	TAIWAN
0342	06/08	09.39.21	34.1	46.2	4.9	P	WESTERN TRAN
0343		10.17.44	21.0	120.2	4.9	p	TAIWAN
0344	06/08	12.46.15	41.0	44.0	4.1	L	TURKEY-USSR PORDER
0345	06/08	16.08.06	19.0	94.0	4.3	N	BURMA
0346	06/08	16.44.24	21.0	120.3	4.7	P	TAIWAN
0347	06/08	17.25.52	43.2	47.2	4.5	p	EASTERN CAUCASUS
0348	06/09	23.10.12	29.5	02.3	4.7	P	TIBET
0349	06/09	00.16.42	47.0	153.0	4.4	L	KURILE ISLANDS
0350	06/09	07.42.20	34.8	26.5	4.9	P	CHFTF
0351	06/09	09.45.09	-8.8	****	4.9	P	N. OF EASTER IS. CORDILLERA
0352	06/09	19.42.27	37.0	44.0	4.0	N	THRKFY
0353	06/10	03.39.33	31.0	51.0	3.6	N	IPAN
0354	06/10	11.29.11	28.2	66.5	4.5	P	PAKISTAN
0355	06/10	19.21.53	43.0	150.0	3.7	I.	KURILE ISLANDS
0356	06/10	19.31.42	32.9	46.3	4.0	$\mathbf{p}$	TRAN-TRAO POEDER
0357	06/11	14.14.01	53.0	160.0	3.3	I.	NEAR E COAST KAMCHATKA
0358	06/11	23.23.04	48.0	152.0	4.0	I.	KURTLE ISLANDS
0359	06/11	23.33.44	47.0	1-2.0	4.3	L.	KURILE ISLANDS
0360	06/12	00.19.16	44.0	148.0	3.7	I	KUPILE TSLANDS
0311	06/12	13.34.01	33.1	46.3	5.4	P	IRAN-IPAO FODDER
0362	06/12	13.39.59	33.1	46.2	5.1	P	IFAN-IRAQ FORDER
0363	06/12	22.37.38	53.0	162.0		I.	OFF E COAST KAMCHATKA
0364	06/13	00.55.37	33.1	46.3	5.1	P	TRAN-IRAO BOPDER
0.365	06/13	04.53.30	55.0	162.0	3.8	T,	NEAR E COAST KAMCHATRA
0366		00.49.54		51.9		P	CASPIAN SEA
0367	06/14	04.34.28	33.0	46.1	5.3	P	TRAN-TEAO BOLDER
0368	06/14	10.27.50	57.0	164.0	3.6	7	KOMANDORSKY TSLANDS
0369		12.11.28	31.0	52.0	3.5	Ŋ	TRAN
0370		12.35.05	27.0	56.0	3.6	N	SCHTHERN IRAN
0371		18.55.53	43.7	13.4	4.9	P	CENTRAL ITALY
0372		21.01.00	43.7	13.5	4.7	P	CENTRAL ITALY
0373		00.33.24	38.3	22.2	11.9	p	GREECE
0374		13.49.13	54.0	169.0	3.5	I.	KOMANDORSKY ISLANDS
0375		14.19.02	38.0	28.0	3.3	N	THEKFY
0376		79.54.41	56.0	161.0	4.1	I.	KAMCHATKA
9377		18.57.52	36.0	69.2	4.5	p	HINDH KHZH
0378		22.12.12	53.0	157.0	3.6	I	KAMCHATKA
0379		23.22.27	34.0	46.0	3.7	N	IPAN-IRAO BORDER
0380		09.02.48	48.3	14.5	4.6	P	AUSTRIA
0381		19.18.21	44.2	149.1	4.6	P	KURTLE TSLANDS
0382		04.30.47	33.0	83.0	4.3	N	TIBET
0383		09.10.54	48.0	154.0	3.9	T,	KURILE ISLANDS
0384	06/18	09.18.49	40.0	73.0	4.3	L	TABZHIK-SINKIANG BORDES

P1	VENT						
NO.				DINFTES			
NO.	DATE	О.Т.	LAT	LONG	MB		SEISMIC ARFA
0385	06/18	22.32.52	39.0	31.0	4.4	L	TURKEY
0386	06/19	01.43.48	54.4	168.6			
0387	06/19	18.02.29	44.0	147.0		Ĺ	KOMANDORSKY ISLANDS
0388	06/19	18.07.53	43.8	151.5			KURILE ISLANDS
0389	06/19	22.41.42	/18 O	157.0	4.1	P	KURILE ISLANDS
0390	06/20	05.17.42	29.0	52.0	4.0	L	KURILE ISLANDS
0.391	06/20	05.17.42 09.18.09 15.34.37	52.0	131.0		N	SOUTHERN IRAN
0392	06/20	15.34.37	32.0	75.0	3.7	L	EASTERN RUSSIA
0393	06/21	00.12.58	53.0	161.0	3.6	N	KASHMIR-INDIA BORDER
0394	06/21	00.19.02	54.0		4.3	N	NEAR E COAST KAMCHATKA
0395	06/21	05.06.17	40.2	159.0	3.7	N	NEAR E COAST KAMCHATKA
0396	06/21	10.42.45	54.0	30.0	4.1	P	TURKEY
0397	06/21	14.53.09	37.0	161.0	4.3	L	NEAR E COAST KAMCHATKA
0.398	06/21	15.06.53	112 0		3.8	N	TURKEY
0.399	06/21	02.35.51	43.8	13.3		P	CENTRAL ITALY
0400	06/23	04.25.27		154.0		N	KURTLE ISLANDS
0401	06/23			30.0		L	TURKEY
0402	06/23	08.39.36	37.0	21.0		N	SOUTHERN GREECE
0403	06/23	16.59.48		46.2	4.6	P	IRAN-IRAQ BORDER
0404	06/23	06 57 00		75.0	3.7	N	TADZHIK-SINKIANG
0405	06/24	06.57.02		54.0	3.5	N	SOUTHERN IRAN
0406	06/24	07.17.56		16.9		P	YUGOSLAVIA
0407	00/24	15.29.22	36.2	69.7	6.0	P	HINDU KUSH
0408	06/24	16.14.54	36.0	69.0	3.8	N	HT NDU KUSH
0409	06 425	18.53.10		74.0	3.4	N	TADZHIK-SINKIANG
0410	06/27	04.59.19	_		4.4	P	YTGOSLAVIA
0411	06.425	07.55.45		69.6	4.7	P	HINDU KUSH
0411	06/25	17.35.50	-	160.0	4.1	L	NEAR E COAST KAMCHATKA
0413	06/25	08.08.25	21.1	120.3	5.0	P	TAIWAN
	00/26	17.32.32	56.0	158.0	3.6	L	KANCHATKA
0414	00/20	20.59.03	36.0	69.0	3.7	N	
0415	06/2/	95.07.42	38.0	65.0	4.0	N	
0416	06/27	06.39.44	29.7	70.3	5.5	P	PARISTAN
0417	06/27	06.49.03	54.0	159.0	3.8	L	NEAR E COAST KAMCHATKA
0418	06/27	09.05.53	26.2	96.6	4.4	P	BURMA
0419	06/27	10.48.56	29.7	70.3	5.4	P	PAKISTAN
0420	06/27	12.20.36	51.0	47.0	3.5	L	WESTERN RUSSIA
0421	06/27	15.59.35	36.3	69.5	5.1	P	HINDU KUSH
0422		01.43.56	43.0	20.5	4.9	P	YUGOSLAVIA
0423	06/28	03.09.59	33.0	91.0	3.6	N	TSINGHAI PROV., CHINA
0424	06/28	04.48.22	56.0	165.0	4.2	L	ROMANDORSKY ISLANDS
0425		06.00.22	55.0	164.0	3.4	L	KOMANDORSKY ISLANDS
0426	06/28	08.16.55	35.0	32.0	4.3	N	CYPRUS
0427	06/28	09.49.35	27.6	33.8	5.6	P	
0428	06/28	14.58.49	53.0	161.0	3.9	L	UNITED ARAB REPUBLIC
0429	06/28	20.57.40	30.0	53.0	3.9	N	OFF E COAST KANCHATKA
0430	06/29	00.41.02	54.0	69.0	3.7	L	SOUTHERN IRAN
0431	06/29	03.32.11	38.9	71.4	4.9	P	CENTRAL KAZAKH SSR
0432	06/30	17.49.33	27.2	56.8	4.6	P	AFGHANISTAN-USSR BORDER
				-70 € O	4 . U	r	SOUTHERN IRAN

EV	ENT		COORD	TNATES			
NO.	DATE	O.T.	LAT	LONG	MB		SEISMIC AREA
0433	06/30	18.57.43	24.3	121.1	4.9	P	TAIWAN
0434		20.31.33	30.0	53.0	4.0	N	SOUTHERN IRAN
0435	07/01	02.10.18	54.0	166.0	3.4	L	KOMANDORSKY ISLANDS
0436	07/02	12.56.07	30.1	50.8	5.4	P	IRAN (D=31 KM)
0437	07/02	14.05.06	30.0	50.8	4.6	P	IRAN (D=31 KM)
0438	07/03	02.10.00	30.1	50.8	5.0	P	IRAN (D=38 KM)
0439	07/03	03.32.50	36.2	71.1	4.3	P	AFGHAN-USSR BORDER (D=128 KM)
0440	07/03	12.31.05	30.0	53.0	4.0	N	SOUTHERN IRAN (Q=3)
0441	07/03	19.26.22	32.0	48.0	4.0	N	IRAN-IRAQ BORDER (Q=3)
0442		21.38.22	30.0	51.0	5.1	P	IRAN (D=43 KM)
0443		04.42.34	49.0	156.0	3.7	L	KURILE ISLANDS
0444		06.17.25	41.0	33.0	3.4	L	TURKEY
0445		09.28.07	28.0	54.0	3.9	N	SOUTHERN IRAN (Q=2)
0446		13.52.19	55.0	163.0	4.4	Ĺ	NEC KANCHATKA
0447		21.47.57	49.0	151.0	3.6	L	KURILE ISLANDS
0448	•	01.04.44	28.0	54.0	3.8	N	SOUTHERN IRAN (Q=3)
0449		01.09.53	44.6	81.1	4.6	P	NORTHERN SINKIANG (D=N)
0450		02.41.54	44.0	86.0	3.5	N	NORTHERN SINKIANG (Q=3)
0451		04.09.49	43.6	87.9	4.3	P	NORTHERN SINKIANG (D=N)
0452		09.59.09	33.0	50.0	3.4	N	
0453		16.29.27	31.0	52.0	4.0		
0454		18.04.54	36.9	21.5		N	TRAN (Q=2)
0455		21.41.08			4.7	P	SOUTHERN GREECE (D=17 KM)
			30.0	54.0	4.1	N	SOUTHERN IRAN (Q=2)
0456		01.02.58	49.7	78.0	4.4	P	E. KAZAKH SSR (D=0 KM)
0457		05.41.43	27.0	55.0	3.1	N	SOUTHERN IRAN (Q=3)
0458		16.05.32	30.2	69.7	4.3	P	WEST PARISTAN (D=53 KM)
0459		19.02.20	44.0	146.0	3.9	N	KURILE ISLANDS (Q=2)
0460	•	05.13.06	56.0	163.0	3.7	L	NEC KANCHATKA
0461		12.04.12		98.1	5.0	P	BURMA (D=27 KM)
0462		23.43.41	32.0	102.0	3.7	N	
0463	07/08	05.46.14	41.6	23.6	4.7	P	
0464		08.29.27			4.9	P	
0465		21.07.27	48.0	151.0	4.2	L	KURILE ISLANDS
0466	•	13.21.22	36.0	19.0	4.0	L	MEDITERRANEAN SEA
0467		00.41.23	28.0	130.6	4.1	P	RYUKYU IS. REG. (D=30 KM)
0468		03.02.02	30.0	129.0	3.8	N	RYUKYU ISLANDS (Q=3)
0469		12.26.31	53.6	161.7	4.1	P	OFC KAMCHATKA (D=N)
0470		19.03.33	43.4	88.6	4.7	P	NORTHERN SINKIANG (D=N)
0471		04.20.41	37.0	72.0	4.2	L	AFGHANISTAN-USSR BORDER
0472	07/11	06.58.21	48.4	154.5	5.2	P	KURILE ISLANDS (D=62 KM)
0473	07/11	08.53.49	55.0	163.0	3.6	L	NRC KANCHATKA
0474		15.33.48	32.0	60.0	3.7	N	IPAN (Q=3)
0475		22.49.02	36.1	45.7	4.7	P	TRAN-IRAQ BORDER (D=N)
0476	07/12	00.14.27	49.3	155.4	5.2	P	KURILE TSLANDS (D=N)
0477		01.21.18	33.0	73.0	3.5	N	PAKISTAN (Q=3)
0478	07/12	14.25.30	55.0	168.0	4.0	N	KOMANDORSKY ISLANDS (Q=2)
0479		19.41.48	37.3	21.9	4.1	P	SOUTHERN GREECE (D=92 KM)
0480	•	20.14.51	49.0	154.0	3.7	L	KURILE ISLANDS

FV	FNT		COOPD	INATES			Parameter A
NO.	DATE	O.T.	LAT	LONG	MB		CEICHIC ADEA
	011 (1)	0	(+ 7, 1	POM (2	el E		SETSMIC AREA
0481	07/13	05.27.44	31.0	89.0	3.9	N	TT PF# (0~2)
0482		15.05.44	44.0	150.0	4.2	N	TIBET (Q=2)
0483		18.50.53	28.0	63.0	3.7	N	KURILE ISLANDS REGION (Q=2)
0484		22.21.17	43.B	13.3	4.4	P	WEST PAKISTAN (Q=2)
0485		23.02.25	22.0	123.0	3.8	N	CENTRAL ITALY (D=N)
0486		04.33.45	36.0	31.0	3.9		TAIWAN REGION (Q=3)
0487		13.04.12	30.1	50.8	4.4	N	TURKEY (Q=2)
0488		13. 18.11	30.0	51.0	3.9	P N	TRAN (D=34 KM)
0489		17.49.13	30.0	51.0			TRAN (Q=2)
0490		18.50.33	30.0	132.0	3.4	N	TRAN (Q=2)
0491		00.35.52	43.0	78.0	3.9	L	RYUKYU ISLANDS REGION
0492		02.15.42	24.2	125.1	3.8	N	KIRGIZ SSR (Q=2)
0493		09.51.51	47.0	152.0	5.1	P	SW RYUKYU ISLANDS (D=29 KM)
0494		13.50.04	53.0	157.0	4.4	L	KURTLE ISLANDS
0495	-	17. 25. 37			3.7	L	KAMCHATKA
0496		02.20.24	46.0	149.0	3.5	Ī	KURILE ISLANDS
0497		02.46.51	32.5	95.9	5.2	P	TTBET (D=N)
0498		03.40.00	38.3	43.3	4.9	P	TURKEY (D=40 KM)
0499			32.6	95.8	4.7	P	TIBET (D=N)
0500		13.48.05	23.7	121.3	4.6	P	TATWAN (D=N)
0501		17.28.03 20.04.04	44.0	150.0	3.7	۲.	KURILE ISLANDS
0502			54.4	162.9	4.2	P	NEC KAMCHATKA (D=N)
0503		22.41.59	27.0	101.0	3.9	N	YIINNAN PROV. (Q=2)
0504		01.17.26	51.0	158.0	4.2	I.	NEC KAMCHATKA
0505		03.14.05	34.0	30.0	3.9	T	EASTERN MEDITERRANEAN SEA
0506		08.28.52	55.0	159.6	5.3	p	KAMCHATKA (D=N)
0507		11.11.46	57.0	162.0	3.3	1	NEC KAMCHATKA
9508		16.15.28	35.0	22.0	3.4	N	MEDITERRANFAN SFA (Q=3)
0500		17.02.48	43.0	149.0	4.1	L	KURILE ISLANDS REGION
		20.50.54	55.1	159.5	4.5	P	KAMCHATKA (D=N)
0510		03.27.07	39.0	77.0	4.0	N	SOUTH STUKIANG (O= 1)
0511 0512		06.04.53	51.0	66.0	3.7	T.	CENTRAL KAZAKH SSR
		13.45.48	41.6	23.8	4.0	P	GREECE-BULGARIA FORDER (D=N)
0513		22.06.50	45.0	148.0	5.0	P	KURILE ISLANDS
0514		10.26.48	52.0	162.0	4.2	L	OEC KAMCHATKA
0515		12.02.50	56.0	157.0	4.3	L	KAMCHATKA
0516		19.43.40	38.0	70.0	3.6	N	AFGHAN USSR BORDER (Q=3)
05 <b>17</b>		10.04.18	28.0	91.0	3.9	N	TIBET (0=2)
0518		13.58.43	36.0	55.0	4.3	N	TRAN (Q=2)
0519		14.07.08	37.5	73.0	4.1	P	TADZHIK SSR (D=197 KM)
0520		16.11.33	28.8	102.3	4.8	P	SZECHWAN PROV., CHINA (D=N)
0521		05.10.40	44.9	36.9	4.6	P	CRIMEA (D=N)
0522		16.41.04	31.4	91.5	5.5	P	TIBET (D=N)
0523		21.00.09	31.4	91.4	4.7	P	TIBET (D=N)
0524		18.17.25	33.0	24.0	3.9	I.	MEDITERRANEAN SEA
0525		23.41.55	31.0	91.0	3.6	N	TIBET (Q=2)
0526		10.14.35	58.0	159.0	3.7	L	KANCHATKA
0527		10.22.23	39.4	40.1	4.4	P	TURKEY (D=N)
0528	07/24	13.09.26	58.0	162.0	4.0	I.	KAMCHATKA

NO. DATE O.T. LAT LONG MB SEISMIC AREA  0529 07/24 14.58.14 35.8 80.6 4.8 P GRECE (D=4) 0530 07/25 01.56.07 38.7 21.4 4.5 P GRECE (D=4) 0531 07/26 02.26.08 45.2 150.7 4.3 P GRECE (D=4) 0532 07/26 18.57.25 40.0 47.0 4.0 N ENSTERN CAUCASUS (D=4) 0532 07/27 10.8,8.6 43.6 13.4 4.8 P CFNTRAL ITALY (D=N) 0534 07/27 00.20.55 50.0 159.1 5.1 P CFNTRAL ITALY (D=N) 0535 07/27 16.41.30 25.4 130.5 5.1 P RUBYL ISLANDS (D=N) 0536 07/28 05.50.29 42.9 81.0 4.3 I SOUTHERN STMITANG PROV. 0537 07/29 17.10.35 32.0 68.0 3.8 N ARGHANISTAN (O=2) 0538 07/29 17.10.35 32.0 68.0 3.8 N ARGHANISTAN (O=2) 0539 07/29 21.07.16 49.2 156.2 4.8 P KURILE ISLANDS (D=N) 0540 07/30 01.30.09 39. 20.4 2.4 P ARGEAN REA (D=N) 0541 07/30 11.41.01 41.0 70.0 4.0 N SECULAN SE (D=2) 0540 07/30 11.41.01 41.0 70.0 4.0 N SECULAN SE (D=2) 0540 07/30 11.40.0 1 41.0 70.0 4.0 N SECULAN SE (D=2) 0540 07/30 11.30.0 30.0 10.10 7 49.2 156.2 5.1 P KURILE ISLANDS (D=4) 0540 07/30 11.30.0 30.0 10.10 7 49.2 17.6 2.5 I P KURILE ISLANDS (D=4) 0540 07/30 11.30.0 30.0 10.10 7 40.0 4.0 N SECULAN PROV. (O=2) 0540 07/30 11.30.1 30.0 30.0 101.0 7 30.0 4.0 N SECULAN PROV. (O=2) 0540 07/31 17.04.47 23.7 121.6 4.6 P TATANN (D=24 KM) 0540 07/31 17.04.47 23.7 121.6 4.6 P TATANN (D=24 KM) 0550 08/01 05.31.41 30.0 131.0 3.7 N KIPGITE SEA 0551 08/02 10.52.27 39.0 73.0 3.5 N KIPGITE SEA 0552 08/02 10.52.27 39.0 73.0 3.7 N KIPGITE SEA 0553 08/02 15.47.37 35.0 24.0 3.4 N CEFFF SEA 0555 08/02 15.47.37 35.0 24.0 3.4 N CEFFF SEA 0556 08/02 15.47.37 35.0 24.0 3.5 N KIPGITE SEA 0557 08/02 15.47.37 35.0 24.0 3.5 N KIPGITE SEA 0566 08/03 03.57.16 56.0 162.0 4.0 L NECKAMCHATKA 0567 08/04 07.09.20 48.0 155.0 3.9 L KURIL ISL 0567 08/04 07.09.20 48.0 155.0 3.9 L KURIL ISL 0567 08/04 07.09.20 48.0 155.0 3.9 L	F	VENT		COORD	INATES			
0529 07/24 14.58.14 15.8 80.6 4.8 P GREEC (D=45 KM) 0530 07/25 01.56.07 38.7 21.4 4.5 P GREEC (D=45 KM) 0531 07/26 02.26.08 45.2 150.7 4.3 P KURILE ISLANDS (D=89 KM) 0532 07/27 10.08.46 43.6 13.4 4.8 P CONTRAL ITALY (D=N) 0533 07/27 00.08.46 43.6 13.4 4.8 P CONTRAL ITALY (D=N) 0534 07/27 00.20.55 50.0 159.1 5.1 P KURILE ISLANDS (D=1) 0535 07/27 16.41.30 25.4 130.5 5.1 P KURILE ISLANDS (D=N) 0536 07/28 05.50.29 42.0 81.0 4.3 I SOUTHERN STRIKTANG PROV. 0537 07/29 9.4.22.17 37.0 29.0 3.8 L DODECANESE ISLANDS 0538 07/29 17.10.35 32.0 68.0 3.8 N ARGHANISTAN (D=2) 0540 07/30 01.30.09 39.9 24.2 4.8 P ARGEN SEA (D=N) 0540 07/30 03.01.07 49.2 156.2 4.8 P ARGEN SEA (D=N) 0540 07/30 03.01.07 49.2 156.2 5.1 P ARGEN SEA (D=N) 0540 07/30 03.01.07 49.2 156.2 5.1 P ARGEN SEA (D=N) 0540 07/30 19.46.24 41.0 27.0 3.6 I THEREY 07/31 04.02.8 56.2 162.9 4.8 P ARGEN SEA (D=N) 0540 07/31 04.02.8 56.2 162.9 4.8 P ARGEN SEA (D=N) 0540 07/31 04.02.8 56.2 162.9 4.8 P ARGEN SEA (D=N) 0540 07/31 07.31 06.40.28 56.2 162.9 4.8 P ARGEN SEA (D=N) 0540 07/31 10.10.5 31.0 52.0 3.6 I THEREY 0550 08/01 09.44.47 36.0 72.0 3.6 I THEREY 0550 08/01 09.44.47 36.0 72.0 3.6 I THEREY 0550 08/02 15.11.59 15.0 35.0 37 N KIRILE ISLANDS 0551 08/02 15.47.37 35.0 24.0 3.8 N ARGHATKA 0551 08/02 15.47.37 35.0 24.0 3.8 N ARGHATKA 0550 08/02 15.47.37 35.0 24.0 3.8 N ARGHATKA 0550 08/02 21.31.06 28.2 57.0 4.7 P KIRILE SEA (D=N) 0551 08/02 21.31.06 28.2 57.0 4.7 P KIRILE SEA (D=N) 0556 08/02 21.31.06 28.2 57.0 4.7 P KIRILE SEA 0560 08/03 02.25.2 3 6.9 152.6 4.5 P KIRILE SEA 0560 08/03 02.55.2 4.9 3.1 56.9 56.1 163.2 5.6 P KIRILE SEA 0560 08/03 02.55.2 4.3 5.9 S.0 4.5 L CYPPIB 0560 08/03 02.55.2 4.3 5.9 S.0 4.5 L CYPPIB 0560 08/03 02.55.2 4.3 5.9 S.0 4.5 L CYPPIB 0560 08/03 02.55.2 4.3 5.9 S.0 4.5 L CYPPIB 0560 08/03 02.55.2 4.3 5.9 S.0 4.5 L CYPPIB 0560 08/03 02.55.2 4.3 5.9 S.0 4.5 L CYPPIB 0560 08/03 02.55.2 5.3 6.9 S.0 4.5 L CYPPIB 0560 08/03 02.55.2 5.3 6.9 S.0 S.0 P KIRILE SEA 05670 08/03 22.47.46 28.2 57.0 4.8 P KIRILE SEA 05670 08/03 22.57.2 2 28.0 133.0 4.0 N			О.Т.			MB		SEISMIC AREA
0510 07/25 01.56.07 38.7 21.4 4.5 P GRPECE (D=45 KM) 0511 07/26 02.26.08 45.2 150.7 4.3 P KINITLE ISLANDS (D=89 KM) 0532 07/26 18.57.25 40.0 47.0 4.0 N EASTENN CAUCASUS (Q=3) 0533 07/27 00.08.66 43.6 13.4 4.8 P KINITLE ISLANDS (D=M) 0534 07/27 00.20.55 50.0 159.1 5.1 P KINITLE ISLANDS (D=M) 0535 07/27 16.44.30 25.4 130.5 5.1 P KINITLE ISLANDS (D=M) 0516 07/28 05.50.29 42.0 81.0 4.3 L SOUTHERN STRING PROV. 0517 07/29 9.22.17 37.0 29.0 3.8 L DODECANESE ISLANDS 0538 07/29 17.10.35 32.0 68.0 3.8 N AFGHANISTAN (Q=2) 0549 07/29 17.10.35 32.0 68.0 3.8 N AFGHANISTAN (Q=2) 0549 07/29 11.07.16 49.2 156.2 4.8 P KURILE ISLANDS (D=N) 0540 07/30 03.01.07 49.2 156.2 5.1 P KURILE ISLANDS (D=N) 0540 07/30 01.10.09 39.9 24.2 4.8 P KURILE ISLANDS (D=N) 0540 07/30 11.41.01 41.0 70.0 4.0 N TADZULK SSR (Q=2) 0544 07/30 19.46.24 41.0 70.0 4.0 N TADZULK SSR (Q=2) 0544 07/30 19.46.24 41.0 70.0 4.0 N TADZULK SSR (Q=2) 0544 07/30 19.46.24 41.0 70.0 3.5 N SZECHWAN PROV. (Q=2) 0546 07/31 06.0.28 56.2 162.9 4.8 P TATKAN REGION (D=N) 0549 08/01 05.33.41 30.0 101.0 3.5 N TADZULK SSR (D=2) 0549 08/01 05.33.41 30.0 131.0 3.7 L PYUKYU TSL 0549 08/01 05.33.41 30.0 131.0 3.7 L PYUKYU TSL 0550 08/01 11.03.49 33.0 32.0 3.7 N MEDITER SRA 0552 08/02 10.52.27 39.0 73.0 3.7 N MEDITER SRA 0553 08/02 15.47.37 35.0 24.0 3.4 N DARKEY 0556 08/02 15.47.37 35.0 24.0 3.4 N DARKEY 0557 08/02 15.47.37 35.0 24.0 3.4 N DARKEY 0558 08/02 15.47.37 35.0 24.0 3.4 N DARKEY 0560 08/03 02.25.21 46.9 152.6 4.0 P KURIL ISL 0557 08/02 21.33.06 28.2 57.0 4.5 N S TRAN 0561 08/03 02.25.21 46.9 152.6 4.5 P NEC KANCHATKA 0566 08/03 02.25.21 46.9 152.6 4.5 P NEC KANCHATKA 0566 08/03 02.25.21 46.9 152.6 4.5 P NEC KANCHATKA 0567 08/02 13.30.0 47.0 151.0 4.0 L NEC KANCHATKA 0568 08/03 02.57.22 28.0 133.0 4.0 N S TRAN 0569 08/04 07.31.09.0 47.0 151.0 4.0 L NEC KANCHATKA 0569 08/04 07.31.09.0 47.0 151.0 4.0 L NEC KANCHATKA 0569 08/04 07.31.09.0 47.0 151.0 4.0 L NEC KANCHATKA 0569 08/04 07.31.09.0 47.0 151.0 4.0 L NEC KANCHATKA 0569 08/04 07.09.0 49.0 159.0 57.0 4.8 P S TRAN 0577 08/04	., .			5.1.2	***************************************			
0510 07/25 01.56.07 38.7 21.4 4.5 P GRPECE (D=45 KM) 0511 07/26 02.26.08 45.2 150.7 4.3 P KINITLE ISLANDS (D=89 KM) 0532 07/26 18.57.25 40.0 47.0 4.0 N EASTENN CAUCASUS (Q=3) 0533 07/27 00.08.66 43.6 13.4 4.8 P KINITLE ISLANDS (D=M) 0534 07/27 00.20.55 50.0 159.1 5.1 P KINITLE ISLANDS (D=M) 0535 07/27 16.44.30 25.4 130.5 5.1 P KINITLE ISLANDS (D=M) 0516 07/28 05.50.29 42.0 81.0 4.3 L SOUTHERN STRING PROV. 0517 07/29 9.22.17 37.0 29.0 3.8 L DODECANESE ISLANDS 0538 07/29 17.10.35 32.0 68.0 3.8 N AFGHANISTAN (Q=2) 0549 07/29 17.10.35 32.0 68.0 3.8 N AFGHANISTAN (Q=2) 0549 07/29 11.07.16 49.2 156.2 4.8 P KURILE ISLANDS (D=N) 0540 07/30 03.01.07 49.2 156.2 5.1 P KURILE ISLANDS (D=N) 0540 07/30 01.10.09 39.9 24.2 4.8 P KURILE ISLANDS (D=N) 0540 07/30 11.41.01 41.0 70.0 4.0 N TADZULK SSR (Q=2) 0544 07/30 19.46.24 41.0 70.0 4.0 N TADZULK SSR (Q=2) 0544 07/30 19.46.24 41.0 70.0 4.0 N TADZULK SSR (Q=2) 0544 07/30 19.46.24 41.0 70.0 3.5 N SZECHWAN PROV. (Q=2) 0546 07/31 06.0.28 56.2 162.9 4.8 P TATKAN REGION (D=N) 0549 08/01 05.33.41 30.0 101.0 3.5 N TADZULK SSR (D=2) 0549 08/01 05.33.41 30.0 131.0 3.7 L PYUKYU TSL 0549 08/01 05.33.41 30.0 131.0 3.7 L PYUKYU TSL 0550 08/01 11.03.49 33.0 32.0 3.7 N MEDITER SRA 0552 08/02 10.52.27 39.0 73.0 3.7 N MEDITER SRA 0553 08/02 15.47.37 35.0 24.0 3.4 N DARKEY 0556 08/02 15.47.37 35.0 24.0 3.4 N DARKEY 0557 08/02 15.47.37 35.0 24.0 3.4 N DARKEY 0558 08/02 15.47.37 35.0 24.0 3.4 N DARKEY 0560 08/03 02.25.21 46.9 152.6 4.0 P KURIL ISL 0557 08/02 21.33.06 28.2 57.0 4.5 N S TRAN 0561 08/03 02.25.21 46.9 152.6 4.5 P NEC KANCHATKA 0566 08/03 02.25.21 46.9 152.6 4.5 P NEC KANCHATKA 0566 08/03 02.25.21 46.9 152.6 4.5 P NEC KANCHATKA 0567 08/02 13.30.0 47.0 151.0 4.0 L NEC KANCHATKA 0568 08/03 02.57.22 28.0 133.0 4.0 N S TRAN 0569 08/04 07.31.09.0 47.0 151.0 4.0 L NEC KANCHATKA 0569 08/04 07.31.09.0 47.0 151.0 4.0 L NEC KANCHATKA 0569 08/04 07.31.09.0 47.0 151.0 4.0 L NEC KANCHATKA 0569 08/04 07.31.09.0 47.0 151.0 4.0 L NEC KANCHATKA 0569 08/04 07.09.0 49.0 159.0 57.0 4.8 P S TRAN 0577 08/04	0529	07/24	14.58.14	35.8	80.6	4.8	P	KASHMIR-TTRET BORDER (D=N)
0511 07/26 02.26.08 45.2 150.7 4.3 P KURILE ISLANDS (D=R) KM) 0512 07/26 18.57.25 40.0 47.0 4.0 N EASTERN CAUCASUS (Q=3) 0533 07/27 00.20.55 50.0 159.1 5.1 P KURILE ISLANDS (D=N) 0534 07/27 00.20.55 50.0 159.1 5.1 P KURILE ISLANDS (D=N) 0535 07/27 16.44.30 25.4 130.5 5.1 P RYUKYD IS. REG. (D=N) 0516 07/28 05.50.29 42.0 81.0 4.3 I. SOUTHERN STNKTANG PROV. 0517 07/29 09.22.17 37.0 29.0 3.R I. SOUTHERN STNKTANG PROV. 0538 07/29 17.10.35 32.0 68.0 3.8 N AFGHANISTAN (Q=2) 0539 07/29 21.07.16 49.2 156.2 4.8 P KURILE ISLANDS (D=N) 0540 07/30 01.10.09 30.9 24.2 4.4 P AFGEAN SER (D=N) 0541 07/30 03.01.07 49.2 156.2 5.1 P KURILE ISLANDS (D=N) 0541 07/30 03.01.07 49.2 156.2 5.1 P KURILE ISLANDS (D=N) 0543 07/30 16.00.03 21.2 121.3 4.9 P TALKAN REGION (D=N) 0544 07/30 16.00.03 21.2 121.3 4.9 P TALKAN REGION (D=N) 0540 07/30 19.00.54 30.0 101.0 3.5 N SZECHWAN PROV. (G=2) 0543 07/30 19.40.24 11.0 27.0 3.6 I THREY 0546 07/31 106.40.28 56.2 162.9 4.8 P TALKAN REGION (D=N) 0549 07/31 21.01.25 31.0 52.0 3.6 N TRAN (G=3) 0549 08/01 10.53.34 30.0 131.0 3.7 L TALKAN (D=N) 05549 07/31 21.01.25 31.0 52.0 3.6 N TRAN (G=2) 0549 08/01 10.53.34 30.0 131.0 3.7 L PANKISTAN 0551 08/01 11.03.49 33.0 32.0 3.7 N KIEDIZ USSE 0552 08/02 15.11.59 35.0 35.0 35.0 37. N KIEDIZ USSE 0553 08/02 15.11.59 35.0 35.0 35.0 N KIEDIZ USSE 0555 08/02 15.11.30 35.0 35.0 35.0 N KIEDIZ USSE 0556 08/02 13.8.50 56.1 163.2 5.6 P TATKAN (D=SE) 0557 08/02 13.13.06 29.2 57.0 4.7 P S TRAN 0559 08/02 23.03.29 28.1 56.9 5.0 P S TRAN 0560 08/03 03.57.16 56.0 162.0 4.0 L NFC KAMCHATKA 0560 08/03 03.57.16 56.0 162.0 4.0 L NFC KAMCHATKA 0560 08/03 03.57.16 56.0 162.0 4.0 L NFC KAMCHATKA 0560 08/03 03.57.16 56.0 162.0 4.0 L NFC KAMCHATKA 0560 08/03 03.57.16 56.0 162.0 4.0 L NFC KAMCHATKA 0560 08/03 03.57.16 56.0 162.0 4.0 L NFC KAMCHATKA 0560 08/03 03.57.16 56.0 162.0 4.0 L NFC KAMCHATKA 0560 08/03 03.57.16 56.0 162.0 4.0 L NFC KAMCHATKA 0560 08/03 03.57.16 56.0 162.0 4.0 L NFC KAMCHATKA 0560 08/03 03.57.16 56.0 162.0 4.0 L NFC KAMCHATKA 0560 08/03 03.57.16 56.0 162.0 4.0 L N						4.5		
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0556 08/02 18.42.20 43.2 146.5 4.0 P KURTL TSL 0557 08/02 21.33.06 28.2 57.0 4.7 P S TRAN 0558 08/02 21.38.50 56.1 163.2 5.6 P NEC KAMCHATKA 0559 08/02 23.03.29 28.1 56.9 5.0 P S TRAN 0560 08/02 23.12.13 28.0 57.0 4.2 N S TRAN 0561 08/03 02.04.26 37.8 32.5 4.3 P TURKEY 0562 08/03 02.25.23 46.9 152.6 4.5 P KURTL ISL 0563 08/03 03.57.16 56.0 162.0 4.0 L NEC KAMCHATKA 0564 08/03 05.51.44 40.0 32.0 3.9 L TURKEY 0565 08/03 12.36.47 59.5 63.2 5.3 P KAMCHATKA 0566 08/03 21.39.26 37.7 32.7 4.5 P TURKEY 0567 08/03 22.47.46 28.2 57.0 4.8 P S TRAN 0568 08/03 22.57.22 28.0 133.0 4.0 N E RYUKYU TSL 0569 08/04 04.30.30 47.0 151.0 4.0 L KURTL TST 0570 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0571 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0572 08/04 17.51.13 49.2 156.1 5.7 P KURTI TSL 0573 08/04 17.51.13 49.2 156.1 5.7 P KURTI TSL 0574 08/04 18.26.11 49.0 156.2 4.4 P KURTI TSL		•						
0557 08/02 21.33.06 28.2 57.0 4.7 P S TRAN 0558 08/02 21.38.50 56.1 163.2 5.6 P NEC KAMCHATKA 0559 08/02 23.03.29 28.1 56.9 5.0 P S TRAN 0560 08/02 23.12.13 28.0 57.0 4.2 N S TRAN 0561 08/03 02.04.26 37.8 32.5 4.3 P TURKEY 0562 08/03 02.25.23 46.9 152.6 4.5 P KURIL ISL 0563 08/03 03.57.16 56.0 162.0 4.0 L NEC KAMCHATKA 0564 08/03 05.51.44 40.0 32.0 3.9 L TURKEY 0565 08/03 12.36.47 59.5 63.2 5.3 P KAMCHATKA 0566 08/03 21.39.26 37.7 32.7 4.5 P TURKEY 0567 08/03 22.47.46 28.2 57.0 4.8 P S TRAN 0568 08/03 22.57.22 28.0 133.0 4.0 N E RYUKYU TSL 0569 08/04 04.30.30 47.0 151.0 4.0 L KURIL TSL 0570 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0572 08/04 17.51.13 49.2 156.1 5.7 P KURIL ISL 0573 08/04 17.51.13 49.2 156.1 5.7 P KURIL ISL 0574 08/04 18.26.11 49.0 156.2 4.4 P KURIL ISL		•						
0558 08/02 21.38.50 56.1 163.2 5.6 P NEC KAMCHATKA 0559 08/02 23.03.29 28.1 56.9 5.0 P S TRAN 0560 08/02 23.12.13 28.0 57.0 4.2 N S TRAN 0561 08/03 02.04.26 37.8 32.5 4.3 P TURKEY 0562 08/03 02.25.23 46.9 152.6 4.5 P KURIL ISL 0563 08/03 03.57.16 56.0 162.0 4.0 L NEC KAMCHATKA 0564 08/03 05.51.44 40.0 32.0 3.9 L TURKEY 0565 08/03 12.36.47 59.5 763.2 5.3 P KAMCHATKA 0566 08/03 21.39.26 37.7 32.7 4.5 P TURKEY 0567 08/03 22.47.46 28.2 57.0 4.8 P S TRAN 0568 08/03 22.57.22 28.0 133.0 4.0 N E RYUKYU TSL 0569 08/04 04.30.30 47.0 151.0 4.0 L KURIL TSL 0570 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0572 08/04 17.09.20 48.0 155.0 3.9 L KURIL ISL 0573 08/04 17.51.13 49.2 156.1 5.7 P KURIL ISL 0574 08/04 18.26.11 49.0 156.2 4.4 P KURIL ISL 0575 08/05 00.49.03 49.0 157.0 3.8 L KURTL TSL		•						
0559 08/02 23.03.29 28.1 56.9 5.0 P S TRAN 0560 08/02 23.12.13 28.0 57.0 4.2 N S TRAN 0561 08/03 02.04.26 37.8 32.5 4.3 P TURKEY 0562 08/03 02.25.23 46.9 152.6 4.5 P KURTL ISL 0563 08/03 03.57.16 56.0 162.0 4.0 L NEC KAMCHATKA 0564 08/03 05.51.44 40.0 32.0 3.9 L TURKEY 0565 08/03 12.36.47 59.5 763.2 5.3 P KAMCHATKA 0566 08/03 21.39.26 37.7 32.7 4.5 P TURKEY 0567 08/03 22.47.46 28.2 57.0 4.8 P S TRAN 0568 08/03 22.57.22 28.0 133.0 4.0 N E RYUKYU TSL 0569 08/04 04.30.30 47.0 151.0 4.0 L KURIL TSL 0570 08/04 05.30.00 37.9 32.9 4.3 P TURKEY 0571 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0572 08/04 17.09.20 48.0 155.0 3.9 L KURIL ISL 0573 08/04 17.51.13 49.2 156.1 5.7 P KURIL ISL 0574 08/04 18.26.11 49.0 156.2 4.4 P KURIL ISL 0575 08/05 00.49.03 49.0 157.0 3.8 L KURTL TSL		•						
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0561 08/03 02.04.26 37.8 32.5 4.3 P TURKEY 0562 08/03 02.25.23 46.9 152.6 4.5 P KURIL ISL 0563 08/03 03.57.16 56.0 162.0 4.0 L NEC KAMCHATKA 0564 08/03 05.51.44 40.0 32.0 3.9 L TURKEY 0565 08/03 12.36.47 59.5 763.2 5.3 P KAMCHATKA 0566 08/03 21.39.26 37.7 32.7 4.5 P TURKEY 0567 08/03 22.47.46 28.2 57.0 4.8 P S IRAN 0568 08/03 22.57.22 28.0 133.0 4.0 N E RYUKYU ISL 0569 08/04 04.30.30 47.0 151.0 4.0 L KURIL TSL 0570 08/04 05.30.00 37.9 32.9 4.3 P TURKEY 0571 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0572 08/04 17.09.20 48.0 155.0 3.9 L KURIL ISL 0573 08/04 17.51.13 49.2 156.1 5.7 P KURIL ISL 0574 08/04 18.26.11 49.0 156.2 4.4 P KURIL ISL 0575 08/05 00.49.03 49.0 157.0 3.8 L KURIL ISL		•						
0562 08/03 02.25.23 46.9 152.6 4.5 P KURTL ISL 0563 08/03 03.57.16 56.0 162.0 4.0 L NEC KAMCHATKA 0564 08/03 05.51.44 40.0 32.0 3.9 L TURKEY 0565 08/03 12.36.47 59.5 763.2 5.3 P KAMCHATKA 0566 08/03 21.39.26 37.7 32.7 4.5 P TURKEY 0567 08/03 22.47.46 28.2 57.0 4.8 P S TRAN 0568 08/03 22.57.22 28.0 133.0 4.0 N E RYUKYU TSL 0569 08/04 04.30.30 47.0 151.0 4.0 L KURIL TSL 0570 08/04 05.30.00 37.9 32.9 4.3 P TURKEY 0571 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0572 08/04 17.09.20 48.0 155.0 3.9 L KURIL ISL 0573 08/04 17.51.13 49.2 156.1 5.7 P KURII ISL 0574 08/04 18.26.11 49.0 156.2 4.4 P KURII ISL 0575 08/05 00.49.03 49.0 157.0 3.8 L KURTL TSL								
0563 08/03 03.57.16 56.0 162.0 4.0 L NFC KAMCHATKA 0564 08/03 05.51.44 40.0 32.0 3.9 L TURKEY 0565 08/03 12.36.47 59.5 763.2 5.3 P KAMCHATKA 0566 08/03 21.39.26 37.7 32.7 4.5 P TURKEY 0567 08/03 22.47.46 28.2 57.0 4.8 P S TRAN 0568 08/03 22.57.22 28.0 133.0 4.0 N E RYUKYU TSL 0569 08/04 04.30.30 47.0 151.0 4.0 L KURIL TSL 0570 08/04 05.30.00 37.9 32.9 4.3 P TURKEY 0571 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0572 08/04 17.09.20 48.0 155.0 3.9 L KURIL TSL 0573 08/04 17.51.13 49.2 156.1 5.7 P KURIL TSL 0574 08/04 18.26.11 49.0 156.2 4.4 P KURIL TSL 0575 08/05 00.49.03 49.0 157.0 3.8 L KURIL TSL							_	
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0566 08/03 21.39.26 37.7 32.7 4.5 P TURKEY 0567 08/03 22.47.46 28.2 57.0 4.8 P S TRAN 0568 08/03 22.57.22 28.0 133.0 4.0 N E RYUKYU TSI. 0569 08/04 04.30.30 47.0 151.0 4.0 L KURIL TSI 0570 08/04 05.30.00 37.9 32.9 4.3 P TURKEY 0571 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0572 08/04 17.09.20 48.0 155.0 3.9 L KURII ISL 0573 08/04 17.51.13 49.2 156.1 5.7 P KURII ISL 0574 08/04 18.26.11 49.0 156.2 4.4 P KURII ISL 0575 08/05 00.49.03 49.0 157.0 3.8 L KURTL TSI.								
0567 08/03 22.47.46 28.2 57.0 4.8 P S TRAN 0568 08/03 22.57.22 28.0 133.0 4.0 N E RYUKYU TSL 0569 08/04 04.30.30 47.0 151.0 4.0 L KURIL TSL 0570 08/04 05.30.00 37.9 32.9 4.3 P TURKEY 0571 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0572 08/04 17.09.20 48.0 155.0 3.9 L KURIL ISL 0573 08/04 17.51.13 49.2 156.1 5.7 P KURIL TSL 0574 08/04 18.26.11 49.0 156.2 4.4 P KURIL ISL 0575 08/05 00.49.03 49.0 157.0 3.8 L KURTL TSL		•						
0568 08/03 22.57.22 28.0 133.0 4.0 N E RYUKYU TSI. 0569 08/04 04.30.30 47.0 151.0 4.0 L KURIL TSI. 0570 08/04 05.30.00 37.9 32.9 4.3 P TURKEY 0571 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0572 08/04 17.09.20 48.0 155.0 3.9 L KURII ISL 0573 08/04 17.51.13 49.2 156.1 5.7 P KURII ISL 0574 08/04 18.26.11 49.0 156.2 4.4 P KURII ISL 0575 08/05 00.49.03 49.0 157.0 3.8 L KURTI TSI.								
0569 08/04 04.30.30 47.0 151.0 4.0 L KURIL TST 0570 08/04 05.30.00 37.9 32.9 4.3 P TURKEY 0571 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0572 08/04 17.09.20 48.0 155.0 3.9 L KURIL ISL 0573 08/04 17.51.13 49.2 156.1 5.7 P KURIL ISL 0574 08/04 18.26.11 49.0 156.2 4.4 P KURIL ISL 0575 08/05 00.49.03 49.0 157.0 3.8 L KURIL TSL								
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0571 08/04 09.19.21 28.0 57.0 4.0 N S TRAN 0572 08/04 17.09.20 48.0 155.0 3.9 L KHRII ISL 0573 08/04 17.51.13 49.2 156.1 5.7 P KURII ISL 0574 08/04 18.26.11 49.0 156.2 4.4 P KURII ISL 0575 08/05 00.49.03 49.0 157.0 3.8 L KURII ISL								
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0575 08/05 00.49.03 49.0 157.0 3.8 L KURTL TSL								

EV	ENT		COORD	INATES			
NO.	DATE	ο.τ.	LAT	LONG	MB		CUTCHIC ADDA
11.00	CRIM	0.1.	LNI	LONG	пр		SEISMIC AREA
0577	08/05	04.16.37	49.0	157.0	4.1	•	FURTI TO
0578		04.52.03	49.0	156.3	4.7	L	KURIL ISL
0579		05.46.29	49.0	156.2	4.9	P P	KURIL ISL
0580		05.52.01	49.0	156.0	4.3	L	KURIL ISL
0581		22. 11.52	49.0	155.0	3.8		KURIL ISL
0582		00.53.12	44.7			L	KURIL ISL
0583		01.12.50		32.6	4.5	P	BLACK SEA
0584		01.32.16	25.1	61.2 60.9	5.5	P	S IRAN
0585		03.45.07	25.7	-	5.0	P	SIRAN
0586		07.00.56	34.0	29.0	4.0	L	MEDITER SEA
0587		10.08.59	31.8	50.1	5.0	P	TRAN
0588			36.0	27.0	4.0	Ţ.	DODECANESE ISL
0589		10.59.17	49.0	157.0	4.2	L	KURIL ISL
		11.07.30	49.0	156.4	4.2	P	KURIL ISL
0590		14.17.30	55.0	164.0	3.7	L	KOMANDORSKY ISL
0591		18.22.25	55.3	166.1	4.5	P	KONANDORSKY ISL
0592		05.42.48	38.0	32.0	4.0	L	TURKEY
0593		10.05.58	53.0	168.0	3.9	L	KOMANDORSKY ISL
0594		00.44.55	36.3	52.6	4.7	P	IRAN
0595		14.24.18	26.0	63.0	4.2	N	W PAKISTAN
0596		09.45.49	48.1	157.1	5.1	P	KURIL ISL
0597		17.19.42	55.0	158.0	3.8	L	KANCHATKA
0598		19.09.34	25.0	61.1	5.5	P	S IRAN
0599		01.28.15	56.0	166.0	3.7	L	KONANDORSKY ISL
0500		04.02.05	39.5	20.7	4.5	P	GREECE-ALBANIA
0601		09.40.46	39.0	33.0	4.4	L	TURKET
0602		10.34.54	49.0	153.0	4.1	L	KURIL ISL
0603		14.43.39	50.0	119.0	3.8	L	USSR-CHINA BORDER
0604		16.28.14	41.0	72.0	4.5	L	TADZHIK USSR
0605		19.42.17	53.0	107.5	5.1	P	LAKE BAIKAL REG
0606		20.51.51	56.8	127.2	4.8	P	E RUSSIA
0607		21.09.10	47.0	153.0	4.1	L	KURIL ISL
0608		01.05.40	36.0	67 , 0	4.5	L	HINDU KUSH
0609	08/10	14.07.13	55.0	166.0	3.5	L	KOMANDORSKY ISL
0610	08/10	21.06.40	32.4	93.5	5.2	P	TIBET
0611	08/11	02.22.14	44.7	102.0	5.0	P	MONGOLIA
0612	08/11	06.49.05	41.0	14.0	4.0	L	S ITALY
0613	08/11	08.50.34	56.0	164.0	3.3	L	WOMANDORSKY ISL
0614	09/11	13.24.44	54.6	161.6	5.3	P	NEC KAMCHATKA
0615	08/11	16.52.32	31.0	52.0	3.5	N	TRAN
0616	08/12	02.42.24	36.0	69.0	3.9	N	HINDU KUSH
0617	08/12	23.47.57		22.7	4.9	P	YUGOSLAVIA
0618		02.16.28	33.0	93.0	4.1	N	TSINGHAI
0619		09.04.48	36.9	71.4	4.7	P	AFGANISTAN-USSR
0620	•	10.43.57	49.0	157.0	3.6	L	KURIL ISL
0621		11.32.30	49.0	154.0	3.6	Ľ	KURIL ISL
0622		12.15.47	47.0	152.0	3.6	L	KURIL ISL
0623	-	18.21.56	54.0	160.0	3.6	L	NEC KAMCHATKA
0624	•	22.51.37	47.0	151.0	4.1	L	KURIL ISL

EV	ENT		COORD	INATES			
NC.	DATE	O.T.	LAT	LONG	MR		SEISMIC AREA
	D 11 1 1	V/ 6 & 6	LA I	LONG	[2]		SEISHIC MREM
0625	08/16	01.44.47	55.0	164.0	3.4	L	OEC KAMCHATKA
0626		03.16.57			5.2	P	E KAZAKH
0627		05.42.23			3.5	N	NW IRAN
0628		08.21.14			3.6	L	KOMANDORSKY ISL
0629		10.15.32		71.0	3.6	N	
0630		10.26.58			4.3	P	
0631		12.08.56		154.0	3.5	Ĺ	KURIL ISL
0632		19.27.10	45.0		4.5	L	KURIL ISI
0633		21.37.19			3.6	L	NEC KAMCHATKA
0634		22.34.32		149.0	4.5	I.	KURIL ISL
0635		18.14.22		78.0		N	N INDIA
0636			45.0	150.0	3.5	I.	KURIL ISL
0637	08/18	01.18.30	53.0	160.0	3.6	L	NEC KAMCHATKA
0638		02.49.15	52.0	158.0	3.5	L	NEC KAMCHATKA
0639	08/18	08.10.18	40.0	22.0	3.6	L	GREECE
0640	08/18	10.03.07	25.0	64.0	3.9	N	W PAKISTAN
0641	08/18	12.12.08	48.0	100.0	4.0	L	MONGOLTA
0642		18.42.19	23.8	126.6	4.8	P	RYUKYU ISL
0643		18.50.18	55.0	163.0	4.0	L	OEC KAMCHATKA
0644		19.02.01	53.0	159.9	5.1	P	NEC KAMCHATKA
0645		21.23.12	50.0	153.0	5.1	L	NW KURTL ISL
0646		23.23.18	50.0	153.0	3.7	L	NW KORIL ISL
0647		04.20,41		94.0	3.9	N	BURMA-INDIA
0648	08/19	06.46.56	38.0		3.6	L	GREECE
0649	08/19	17.54.24			4.3	P	KURIL ISL
0650	08/19	21.56.10	45.0	149.0	3.5	L	KUPIL ISI.
0651	08/19	23.20.48	43.5	148.4	4.9	P	KURIL ISL
0652	08/20	02.59.58	49.5	48.2	5.7	P	W KAZAKH
0653	08/20	08.10.08	51.3	161.6	5.2	P	OEC KAMCHATKA
0654		10.15.44			4.5	P	NEC KAMCHATKA
0655	08/21	13.45.49	47.0	151.0	4.0	I.	KURIL ISL
0656		14.04.34		88.0	4.8	P	SIKKIM
0657		14.24.07	22.0	94.0	4.3	N	BURMA-INDIA
0658		18.55.07	27.2	88.0	5.1	P	SIKKIM
0659		02.44.10	35.0	25.0	4.0	L	CRETE
0660		03.37.00	47.0	153.0	4.1	L	KURIL ISL
0661		14.20.19	50.2	156.7	5.2	P	KURIL ISL
0662		16.34.56	40.0	79.0	4.6	L	S STAKIANG
0663		21.54.53	23.0	121.0	4.2	N	NAVIAT
0664		10.38.08	49.0	156.0	3.7	I	KURIL ISL
0665		21.14.16	39.0	29.0	4.0	L	TURKEY
0666		10.44.01	51.0	157.0	3.3	L	KURIL ISL
0667		15.32.39	50.0	159.0	3.8	L	KURIL ISL
0668		17.05.56	53.0	160.0	3.8	L	OEC KAMCHATKA
0669		22.54.19	48.0	147.0	3.8	L	NW KURIL ISL
0670		04.11.20	71.0	138.0	4.0	I.	NE SIBERTA
0671		10.19.34	47.0	152.0	3.6	I.	KURIL ISL
0672	08/26	03.46.57	50.0	77.8	5.5	P	E KAZAKH

EV	ENT		COORD	TNATES			
NO.	DATE	O.T.	LAT	LONG	MB		SEISMIC AREA
0673	08/26	11.21.08	32.0	101.0	3.8	N	SZECHWAN
0674		01.14.57	38.0	30.0	3.6	N	TURKEY
0675	08/27	14.42.46	23.0	102.0	4.0	N	BURMA-TNDIA
9676		14.49.32	22.6	100.7	4.8	P	BURMA-INDIA
0677	08/27	16.54.01	36.0	70.0	3.6	N	HINDU KUSH
0678	08/28		56.0	163.0	4.2	L	OEC KANCHATKA
0679		05.59.56	73.3	55.1	6.3	P	NOVAYA ZPHLYA
OFRO		06.33.40	36.0	64.0	5.2	T.	TURK-APGAN BOR
0681		09.00.22	49.0	155.0	3.7	L.	KURIL ISL
UENS	08/2A	15.27.10	33.0	48.0	3.7	Ņ	W IRAN
0683		21.59.23	33.0	27.0	4.4	L	MEDITER SEA
0684		22.17.52	36.0	26.0	3.6	N	CRETE
0685		23.00.21	34.0	82.0	3.7	N	TIRET
DEBE		00.08.23	44.0	16.2	4.5	P	YUGOSLAVIA
0687	08/30	15.14.10	36.7	96.5	5.5	P	TSINGHAT
0699		17.52.23	40.0	94.0	4.2	N	S STAKLANG
0699		18.47.43	36.6	96.4	5.5	P	TSINGHAI
0690	08/30	18.51.35	36.7	96.3	5.5	P	TSINGHAI
0691	08/30	20.06.50	53.0	160.0	4.6	L	OEC KANCHATKA
0693	19/30	20.42.46	38.0	96.0	4.3	N	TSTNGHAI
0693		14.03.16	52.3	95.4	5.5	P	C RUSSIA
0694	04/31	17.22.47	49.0	106.0	3.7	1	MONGOLIA
0615	08/31	18.12.08	55.0	163.0	3.5	I.	NEC KAMCHATKA
0606	11/01	04.06.45	38.5	65.2	4.4	P	S E UZBEK
0697	11/01	06.22.29	36.7	141.5	4.4	P	E C HONSHU
0649	11/01	16.39.51	43.4	146.3	4.8	P	KURTL ISL
0599	11/02	01.26.58	49.4	78.9	6.2	P	P KAZAKU
0700	11/02	12.52.23	39.4	73.2	4.7	P	TADZHIK-SINK
0701	11/03	09.41.33	31.0	52.0	4.0	N	TRAN
0702	11/03	23.58.09	35.0	69.5	5.5	L	APGHANISTAN
0703	11/05	14.06.59	36.0	72.0	3.8	N	APGHAN-USSR
0704		19.25.42	35.1	24.9	5.2	P	CRETE
0705	11/06	06.15.06	36.9	70.8	4.2	L	HINDU KUSH
0706	11/06	07.07.10	34.1	33.3	3.7	L	CYPRUS
2707		09.31.56	34.6	25.1	4.3	L	CRETE
0708		10.56.09	27.0	88.7	4.8	P	SIKKIN
0709	A CONTRACTOR OF THE PARTY OF TH	12.18.30	38.2	69.0	4.1	P	TADZHIK
0710	11/06	16.22.20	44.0	148.8	4.3	L	KURIL ISL
0711		06.40.36	22.7	120.7	5.4	P	TATUAN
0712		15. 12. 34	37.0	73.0	4.3	N	AFGHAN-USS R
0713	11/07	19. 36. 29	53.3	160.0	4.5	I.	NEC KAMCHATKA
0714		22.41.33	34.9	24.8	4.6	P	CRETE
0715		11. 11. 47	47.3	151.0	3.7	L	KURIL TSL
0716		14.25.43	23.9	121.6	5.5	P	TATUAN
C717		16.45.10	38.0	20.5	4.2	L	TONIAN SEA
0718		04.45.12	30.3	57.6	4.7	P	TRAN
0719		09.52.19	39.8	28.3	3.6	L	TURKEY
0720		18.22.39	50.1	154.3	3.6	L	KURIL ISL

EV	FNT		COORD	INATES			
NO.	DATE	О.Т.	LAT	IONG	ΜR		SEISMIC AREA
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0721	11/11	13.57.23	49.9	129.6	3.8	I.	E CHINA-USSR BOR
0722		14.08.58	41.0	77.0	3.8	N	KIRGIZ-SINK BOR
0723		02.46.34	55.5		4.8	P	NEC KAMCHATKA
0724	11/13	01.56.51	45.7		3.7	L	KURII. ISI.
0725		18.27.04	14.0	52.0	3.9	N	F GULF OF ADEN
0726		03.36.28	22.0		4.1	N	TATWAN
0727		18.15.07		53.0	3.9	N	STRAN
0728		12.21.41		28.0	4.5	1	E MEDITER SEA
0729		14.56.53		73.0	3.9	N	AFGHAN-USSR
0730			35.0	24.0	3.8	L	CRETE
0731	11/16	10.10.47	34.0	46.0	3.9	Ŋ	TRAN-TRAO BOR
0732	11/16	11.24.12		96.0	4.4	N	PURMA
0733	11/17	02.13.07		24.0	3.7	N	CRETE
0734	11/17	02.42.36	37.4	20.3	4.3	p	IONIAN SEA
0735	11/17	15.58.47		152.0	4.0	N	KURIL ISI.
0736	11/17	17.12.02	44.4	148.6	3.7	L	KURTI TSL
0737		08.31.16	52.7	160.2	4.6	p	OFC KAMCHATKA
0738	11/18	12.52.53	44.8	149.5	3.9	Ĩ	KURIL ISL
0739	11/18	17.53.59	46.4	154.2	4.0	Ī.	KURTL ISL
0740	11/19	20.53.01	43.1)	82.0	4.0	N	M STAFTANG
0741	11/20	03.30.28	39.4	21.8	4.9	P	GREFCE
0742	11/20	03.34.34	31.0	51.0	4.0	N	TRAN
0743	11/20	05.37.12	43.0	84.0	4.0	N	N SINKIANG
0744	11/21	02.47.14	23.8	121.6	5.7	$\mathbf{p}$	TATWAN
0745	11/21	12.51.25	23.0	121.0	4.4	N	TAIWAN
0746	11/21	11.51.50	58.2	63.0	3.6	I.	C RUSSTA
0747		18.16.17	34.2	30.3	4.1	Ţ	E MEDITER SEA
0748	11/21	19.12.58	37.0	73.0	4.()	N	AFGHAN-USSP
0749	11/22	03.01.53	37.0	76.0	4.7	Ŋ	S SINKIANG
0750	11/22	18.05.51	35.9	77.4	4.9	P	F KASKMIT
0751		01.35.27		22.3	4.3	r	GREECF
0752	11/24	03.48.38	40.1	21.6	5.4	I.	GREECE
0753	11/24	09.00.08	52.8	51.1	4.7	P	W RUSSTA
0754		09.40.56	31.0	52.0	3.7	N	THAN
0755		09.59.58	51.8	64.2	5.2	P	W KAZAKII
0756	11/25	02.11.39	52.3	158.9	3.4	Ţ.	NEC KVWCHVER
0757		12.18.24	33.0	97.0	3.9	Ŋ	TSINGHAI CHINA
0759		13.42.34	56.3	123.3	5.1	(1)	E RUSSTA
0759		15.20.48	38.4	22.3	4.0	þ	GREECE
0760	11/25		28.4	53.7	5.6	P	S TRAN
0761	-	14.52.31	52.1	158.8	5.2	b	NEC KAMCHATKA
0762		16.03.12	43.0	13.4	4.3	P	CITALY
0763		05.11.11	52.8	62.1	3.9	L	W KNZAKH
0764	11/27		53.4	161.3	4.7	Þ	OEC KAMCHATKA
0765		13.26.15	33.8	27.9	H * 15	P	E MEDITER SEA
0766		18.42.47	55.4	162.1	3.6	L	NEC KAMCHATKA
0767		01.57.57	32.2	26.5	4.4	1.	F MEDITER SEA
0768	11/29	03.19.19	36.0	72.0	3.6	V,	AFGHAN-USSR

EV	ENT		COORD	INATES			
NO.	DATE	О.Т.	LAT	LONG	MB		SEISMIC AREA
	Diri G	9.1.	WA I	DONG	(IL)		Saishic AREA
0769	11/29	16.49.36	36.0	72.0	4.1	N	AFGHAN-USSR
0770	11/30	07.34.16	73.3	144.9	3.6	T.	SIBERIAN ISL
0771		11.25.32	44.1	13.0	4.6	P	ADRIATIC SEA
0772		18.31.19		160.7	3.9	L	ORC KANCHATKA
0773	12/01		42.7	13.3	3.9	P	C ITALY
0774		07.32.01	29.0	52.0	4.7	N	S IRAN
0775		11.39.04	35.4	57.9	5.4	P	TRAN
0776		21.15.52	54.9	162.0	4.8	P	NEC KAMCHATKA
0777		03.57.54	33.5	141.0	4.1	p	OEC HONSHU
0778		13.28.24	35.4	27.1	5.1	P	DODECANESE ISL
0779		20.33.00	33.2	141.0	3.6	P	OEC HONSHU
0780		03.18.48	46.0	144.0	3.9	Ĺ	SAKHALIN ISL
0781		08.54.47	39.4	75.3	5.0	P	S SINKIANG
0782		10.07.57	46.0	145.0	4.0	L	SEA OF OKHOTSK
0783		13.13.13	53.8	160.6	4.4	P	NEC KANCHATKA
0784		15.35.14	45.0	148.0	4.1	L	KURIL ISL
0785		22.08.32	31.9	131.5	5.3	P	KYUSHU
0786		03.24.55	35.2	27.2	4.3	p	DODECANESE ISL
0787		05.19.32	33.2	140.9	3.7	P	
0788		22.58.21	35.0	72.0	3.9	N	S OF HONSHU
0789		03.02.13	33.3	141.0	4.2	p	PAKISTAN
0790		04.11.07	33.3	140.8	4.7		OEC HONSHU
0791	12/07		42.0	119.0	3.7	P	S OF HONSHII
0792		04.39.46	85.3	91.2		L	NP CHINA
0793		05.36.45	37.0	69.0	4.5	P	N OF SEV ZEMLY
0794		20.16.05	24.0	121.0	4.1	N	AFG-USSR BOR
0795		12.21.27	50.0	157.0		N	TAIWAN
0796		14.04.49	54.0		3.8	L	KURTL ISL
0797		04.26.58	49.8	169.0	3.5	L	KOHANDORSKY ISL
0798		04.27.08	50.1	78.1	5.7	P	E KAZAKH
0799		18.26.07		78.8	0.0	P	E KAZAKH
0800		18.39.37	44.8	149.4	6.0	P	KURIL ISL
0801		23.55.03	45.0 44.0	151.0 149.0	4.2	L	KURIL ISL
0802	•				3.5	L	KURIL ISL
0803		00.22.20	44.8	149.2	4.8	P	KURIL ISL
		00.44.11	45.0	148.0	3.6	L	KURIL ISL
0804		01.13.27	44.0	150.0	3.7	L	KURIL ISL
0805		01.30.11	38.0	22.0	3.7	L	GREECE
0806		01.36.59	46.0	151.0	4.3	L	KURIL ISL
0807		02.05.20	44.7	149.4	4.3	P	KURIL ISL
0808		02.26.46	45.0	148.0	3.9	L	KURIL ISL
0809		05.52.00	46.0	151.0	3.6	L	KURIL ISL
0810	-	07.59.03	46.0	151.0	3.6	L	KURIL ISL
0811		11.10.27	44.0	153.0	3.6	L	KURTL ISL REG
0812		16.14.46	44.8	149.3	4.3	P	KURIL ISL
0813		19.32.52	44.7	149.3	4.8	P	KURIL ISL
0814		00.08.00	45.0	149.0	4.1	L	KURIL ISL
08 15		00.36.04	53.1	160.0	4.7	P	NEC KARCHATKA
0816	12/12	02.32.53	38.9	21.9	3.9	P	GREECE

NO. DATE O.T. LAT LONG MB SEISMIC AREA  0817 12/12 05.17.02 47.0 143.0 3.6 L SAKHALIN ISL  0818 12/12 09.03.56 44.1 151.0 5.7 P KURIL ISL REG  0829 12/13 01.19.28 34.0 69.0 3.6 N APGANISTAN  0820 12/13 02.58.52 41.6 24.0 4.5 P GREECE-BULGAR  0821 12/13 04.29.53 46.0 151.0 4.6 L KURIL ISL  0822 12/13 13.48.33 45.0 150.0 4.1 L KURIL ISL  0823 12/14 17.50.22 38.2 20.2 4.7 P GREECE  0824 12/15 14.41.32 44.6 149.4 4.7 P KURIL ISL  0826 12/15 17.55.56 35.2 27.2 4.7 P DODECANESE ISL  0826 12/15 17.55.56 35.2 27.2 4.7 P DODECANESE ISL  0827 12/16 23.00.00 85.6 85.1 4.4 P NOF SEV ZEMLY  0829 12/17 00.18.34 44.7 149.2 5.7 P KURIL ISL  0829 12/17 00.32.23 44.7 149.3 4.8 P KURIL ISL  0831 12/17 01.22.32 45.0 150.0 3.8 L KURIL ISL  0831 12/17 01.26.04 44.7 149.3 4.8 P KURIL ISL  0833 12/17 01.26.04 44.7 149.3 4.6 P KURIL ISL  0833 12/17 01.26.04 44.7 149.3 4.6 P KURIL ISL  0833 12/17 05.45.58 44.7 149.3 4.6 P KURIL ISL  0834 12/17 05.45.58 44.7 149.3 4.6 P KURIL ISL  0835 12/17 05.45.58 44.7 149.3 4.6 P KURIL ISL  0836 12/17 05.45.58 64.7 149.0 4.1 L KURIL ISL  0837 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY  0840 12/17 09.88.51 4.0 149.0 4.1 L KURIL ISL  0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL  0841 12/17 12.44.30 38.3 26.2 4.7 P CREE  0841 12/17 12.44.30 38.3 36.0 8.0 4.0 L N OF SEV ZEMLY  0850 12/20 01.5.29 31.0 67.0 4.3 N PAKISTAN  0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG  0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN  0851 12/22 03.31.44 55.0 164.0 4.1 L KURIL ISL REG  0847 12/22 03.31.44 55.0 164.0 4.1 L KURIL ISL REG  0851 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL  08661 12/25 12.55.52 45.5 140.6 50.0 3.5 L OCC KAMCHATKA  08660	EV	ENT		COORD	INATES			
0817 12/12 05.17.02 47.0 143.0 3.6 L SAKHALIN ISL 0818 12/12 09.93.56 44.1 151.0 5.7 P KURIL ISL REG 0819 12/13 01.19.28 34.0 69.0 3.6 N APGANISTAN GREECE-BULGAR WIRIL ISL 0822 12/13 04.29.53 46.0 151.0 4.6 L KURIL ISL 0822 12/13 23.48.33 45.0 150.0 4.1 I KURIL ISL 0822 12/14 17.50.22 38.2 20.2 4.7 P GREECE BULGAR WIRIL 15L 0822 12/15 12/15 02.44.29 44.0 148.0 3.4 L KURIL ISL 0824 12/15 14.41.32 44.6 149.4 4.7 P KURIL ISL 0826 12/15 17.55.56 35.2 27.2 4.7 P DODECANESE ISL 0827 12/16 23.00.00 85.6 85.1 4.4 P N OF SEV ZEMLY 0828 12/17 00.18.34 44.7 149.2 5.7 P KURIL ISL 0830 12/17 00.32.23 44.7 149.3 4.8 P KURIL ISL 0830 12/17 00.32.23 44.7 149.3 4.8 P KURIL ISL 0830 12/17 00.52.13 46.0 150.0 4.3 L KURIL ISL 0831 12/17 00.52.13 45.0 150.0 3.8 L KURIL ISL 0831 12/17 01.26.04 44.7 149.4 4.8 P KURIL ISL 0833 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL 0833 12/17 01.26.04 44.7 149.4 4.8 P KURIL ISL 0833 12/17 01.26.04 44.7 149.4 4.8 P KURIL ISL 0836 12/17 02.14.21 44.0 148.0 3.7 L KURIL ISL 0836 12/17 05.45.58 44.7 149.3 4.8 P KURIL ISL 0836 12/17 07.35.31 67.0 96.0 4.0 L N OF SEV ZEMLY 0838 12/17 07.35.31 67.0 96.0 4.0 L N OF SEV ZEMLY 0840 12/17 07.35.31 67.0 96.0 4.0 L N OF SEV ZEMLY 0840 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL 0839 12/17 07.35.31 67.0 96.0 4.0 L N OF SEV ZEMLY 0840 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL DRG 0844 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0843 12/17 07.38.51 43.0 150.0 3.8 L KURIL ISL DRG 0844 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0843 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL DRG 0844 12/17 19.34.31 35.5 27.8 4.6 P DODECANESE TSL 0846 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0848 12/21 12.31.05 54.0 160.0 3.8 L KURIL ISL DRG 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE TSL 0845 12/22 03.13.4 55.0 160.0 3.8 L KURIL ISL DEC CAMCHATKA 0848 12/22 13.09.34 36.0 69.0 3.9 N BURMA-INDIA 0855 12/22 03.13.9 45.0 150.0 3.8 N S SINKTANG 0856 12/22 03.13.4 55.0 160.0 4.1 L KURIL ISL DEC CAMCHATKA 0866 12/22 03.13.4 55.0 160.0 3.8 N PAKISTAN 0856 12/22 18.55.5 8 53.0 160.0 3.9 N PAKISTAN 0856 12/			О.Т.			MB		SETSMIC AREA
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0820 12/13 04.58.52	0819	12/13	01.19.28					
0821 12/13 04.29.53	0820	12/13	02.58.52					
0822 12/13 23.48.33 45.0 150.0 4.1 I GRECE 10824 12/15 02.44.29 44.0 148.0 3.4 L KURIL ISL BEG 6825 12/15 14.41.32 44.6 149.4 4.7 P DODECANESE ISL 0827 12/16 23.00.00 85.6 85.1 4.4 P DODECANESE ISL 0827 12/16 23.00.00 85.6 85.1 4.4 P DODECANESE ISL 0828 12/17 00.18.34 44.7 149.2 5.7 P KURIL ISL 0828 12/17 00.41.33 46.0 150.0 4.3 L KURIL ISL 0831 12/17 00.41.33 46.0 150.0 4.3 L KURIL ISL 0831 12/17 00.52.13 45.0 150.0 3.8 L KURIL ISL 0831 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL 0833 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL 0834 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL 0835 12/17 02.14.21 44.0 148.0 3.7 L KURIL ISL 0835 12/17 05.45.58 44.7 149.3 4.6 P KURIL ISL 0837 12/17 05.45.58 44.7 149.3 4.6 P KURIL ISL 0837 12/17 05.35.31 87.0 96.0 3.4 N TADZHIK USSR 0839 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY 0840 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0841 12/17 12.44.30 34.3 26.2 4.7 P KURIL ISL 0841 12/17 12.44.30 34.3 26.2 4.7 P KURIL ISL 0841 12/17 12.44.30 34.3 26.2 4.7 P KURIL ISL 0841 12/17 12.44.30 34.3 26.2 4.7 P KURIL ISL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE TSL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL REG 0844 12/20 11.09.02 50.0 150.0 4.1 L KURIL ISL REG 0844 12/21 12.31.05 54.0 162.0 4.2 L CENTRAL TYALY 0840 12/22 03.01.20 56.0 164.0 4.1 L KURIL ISL REG 0847 12/22 03.01.20 56.0 164.0 4.1 L KURIL ISL REG 0851 12/22 07.33.07 49.0 160.0 3.8 L KURIL ISL REG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0855 12/22 07.33.07 49.0 160.0 3.8 N SINKIANG 0855 12/22 07.33.07 49.0 160.0 3.8 N SINKIANG 0855 12/22 07.33.07 49.0 160.0 3.5 N PAKISTAN 0856 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL OEC KAMCHATKA 0852 12/25 18.55.58 53.0 162.0 3.5 L OEC KAMCHATKA 0866 12/25 0.54	0821	12/13	04.29.53					
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0824 12/15 02.44.29 44.0 148.0 3.4 L KURIL ISL REG   0825 12/15 14.41.32 44.6 149.4 4.7 P KURIL ISL   0826 12/15 17.55.56 35.2 27.2 4.7 P CORPORATE ISL   0827 12/16 23.00.00 85.6 85.1 4.4 P N OF SEV ZEMLY   0828 12/17 00.18.34 44.7 149.2 5.7 P KURIL ISL   0830 12/17 00.41.33 46.0 150.0 4.3 L KURIL ISL   0831 12/17 00.52.13 45.0 150.0 3.8 L KURIL ISL   0831 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL   0833 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL   0833 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL   0835 12/17 05.45.58 44.7 149.3 4.6 P KURIL ISL   0836 12/17 05.45.58 44.7 149.3 4.6 P KURIL ISL   0837 12/17 06.54.55 44.6 149.4 4.9 P KURIL ISL   0838 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY   0840 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY   0840 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY   0840 12/17 12.38.12 46.0 155.0 3.7 L KURIL ISL   0841 12/17 12.38.12 46.0 155.0 3.8 L KURIL ISL   0843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL   0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE ISL   0848 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL   0848 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN   0849 12/22 03.31.24 55.0 164.0 4.1 L KURIL ISL   0849 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL   0855 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL   0856 12/25 07.33.07 49.0 156.0 4.1 L KURIL ISL   0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA   0858 12/27 08.15.11 39.0 25.0 3.6 N AEGAN SEA	0823	12/14	17.50.22	38.2	20.2	4.7	P	
0825 12/15 14.41.32	0824	12/15	02.44.29	44.0	148.0	3.4	L	
0826 12/15 17.55.56 35.2 27.2 4.7 P DODECANESE ISL 0827 12/16 23.00.00 85.6 85.1 4.4 P N OF SEV ZEMLY 0828 12/17 00.18.34 44.7 149.3 4.8 P KURIL ISL 0829 12/17 00.41.33 46.0 150.0 4.3 I KURIL ISL 0831 12/17 00.52.13 45.0 150.0 3.8 L KURIL ISL 0832 12/17 01.18.17 44.8 149.2 4.7 P KURIL ISL 0833 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL 0833 12/17 01.26.04 44.7 149.3 4.8 P KURIL ISL 0835 12/17 02.14.21 44.0 148.0 3.7 L KURIL ISL 0836 12/17 05.45.58 44.7 149.3 4.6 P KURIL ISL 0838 12/17 05.45.58 44.6 149.4 4.9 P KURIL ISL 0838 12/17 06.54.57 44.6 149.4 4.9 P KURIL ISL 0838 12/17 06.54.57 44.6 149.4 4.9 P KURIL ISL 0838 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY 0840 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL 0841 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0842 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE TSL 0848 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0844 12/20 13.09.46 32.0 72.0 3.7 L KURIL ISL REG 0849 12/22 01.3.09.46 32.0 72.0 3.7 N PAKISTAN 0849 12/22 07.33.07 49.0 160.0 4.2 L OCK KAMCHATKA 0849 12/22 07.33.07 49.0 160.0 4.1 L KURIL ISL REG 0849 12/22 01.3.09.46 32.0 72.0 3.7 N PAKISTAN 0849 12/22 07.33.07 49.0 160.0 4.1 L KURIL ISL REG 0849 12/22 07.33.07 49.0 160.0 4.1 L KURIL ISL REG 0849 12/22 01.3.09.46 32.0 72.0 3.7 N PAKISTAN 0850 12/22 07.33.07 49.0 160.0 4.1 L KURIL ISL REG 0849 12/22 07.33.07 49.0 160.0 4.1 L KURIL ISL REG 0849 12/22 07.33.07 49.0 160.0 4.1 L KURIL ISL REG 0849 12/22 07.33.07 49.0 160.0 4.1 L KURIL ISL REG 0849 12/22 07.33.07 49.0 160.0 4.1 L KURIL ISL REG 0849 12/22 07.33.07 49.0 160.0 4.1 L KURIL ISL REG 0849 12/22 07.33.07 49.0 160.0 4.1 L KURIL ISL REG 0849 12/22 07.33.07 49.0 160.0 4.1 L KURIL ISL REG 0849 12/22 12.30.05 54.0 162.0 4.1 L KURIL ISL REG 0849 12/22 12.30.05 55.0 160.0 4.1 L KURIL ISL REG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 12.30.53 53.1 162.9 4.8 P OCC KAMCHATKA 0861 12/26 06.13.50 20.0 67.0 3.6 N PAKISTAN 0866 12/25 12.55.52 45.5 149.8 4.7 P NEC KAMCHATKA 0861 12/26 06.13.50 20.0 67.0 3.6 N AEGEAN SEA	0825	12/15	14.41.32	44.6	149.4	4.7	P	
0827 12/16 23.00.00 85.6 85.1 4.4 P NOF SEV ZEMLY 0828 12/17 00.18.34 44.7 149.2 5.7 P KURIL ISL 0830 12/17 00.32.23 44.7 149.2 5.7 P KURIL ISL 0831 12/17 00.52.13 45.0 150.0 4.3 L KURIL ISL 0831 12/17 01.22.32 45.0 150.0 3.8 L KURIL ISL 0833 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL 0833 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL 0834 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL 0836 12/17 02.14.21 44.0 148.0 3.7 L KURIL ISL 0836 12/17 05.45.58 44.7 149.4 4.8 P KURIL ISL 0836 12/17 06.24.52 44.6 149.4 4.9 P KURIL ISL 0838 12/17 06.54.53 44.7 149.3 4.6 P KURIL ISL 0838 12/17 06.54.53 44.7 149.3 4.6 P KURIL ISL 0838 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY 0840 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0842 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL PEG 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE ISL 0848 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0849 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0849 12/22 00.34.25 42.0 15.0 3.7 L KURIL ISL REG 0849 12/22 03.31.34 55.0 162.0 4.2 L OEC KAMCHATKA 0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL REG 0849 12/22 03.31.34 45.0 55.0 164.0 4.1 L KURIL ISL REG 0853 12/22 18.42.39 24.0 94.0 3.9 N BURNA-INDIA 0855 12/22 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0859 12/25 18.55.52 45.5 149.8 4.7 P NEC KAMCHATKA 0856 12/25 12.55.52 45.5 149.8 4.7 P NEC KAMCHATKA 0861 12/25 12.55.52 45.5 149.8 4.7 P NEC KAMCHATKA 0861 12/25 12.55.52 45.5 149.8 4.7 P NEC KAMCHATKA 0861 12/25 12.55.52 45.5 149.8 4.7 P NEC KAMCHATKA 0861 12/25 18.55.58 53.0 159.4 4.7 P NEC KAMCHATKA 0861 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0861 12/26 06.13.50 26.0 67.0 3.6 N PAKISTAN 0866 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0861 12/26 06.13.50 26.0 67.0 3.6 N AEGEAN SEA	0826	12/15	17.55.56	35.2	27.2	4.7	P	
0828 12/17 00.18.34	0827	12/16	23.00.00	85.6	85.1	4.4	P	
0839 12/17 00.32.23	0828	12/17	00.18.34	44.7	149.2	5.7	P	
0830 12/17 00.41.33 46.0 150.0 4.3 L KURIL ISL 80831 12/17 00.52.13 45.0 150.0 3.8 L KURIL ISL 80832 12/17 01.18.17 44.8 149.2 4.7 P KURIL ISL 80833 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL 80834 12/17 01.26.04 44.7 149.4 4.8 P KURIL ISL 80835 12/17 02.14.21 44.0 148.0 3.7 L KURIL ISL 80836 12/17 05.45.58 44.7 149.3 4.6 P KURIL ISL 80837 12/17 06.54.52 44.6 149.4 4.9 P KURIL ISL 80837 12/17 06.54.07 38.0 69.0 3.4 N TADZHIK USSR 812/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY 80840 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY 80840 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL 80841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 80843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL 80843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL 80844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE TSL 80845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN 80846 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 80848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 80849 12/22 03.01.20 56.0 162.0 4.2 L OEC KAMCHATKA 80849 12/22 03.13.44 55.0 162.0 4.1 L KOMONDORSKY ISL 80851 12/22 03.13.44 55.0 166.0 4.1 L KURIL ISL 80851 12/22 03.13.44 55.0 166.0 4.1 L KURIL ISL 80851 12/22 03.313.4 55.0 166.0 4.1 L KURIL ISL 80851 12/22 03.33.07 49.0 156.0 4.1 L KURIL ISL 80851 12/22 03.33.07 49.0 156.0 4.1 L KURIL ISL 80851 12/22 03.33.07 49.0 156.0 4.1 L KURIL ISL 80851 12/22 23.20.33 36.0 85.0 3.8 N SINKIANG 80851 12/22 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 80851 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 80859 12/25 12.55.52 45.5 149.8 4.7 P NEC KAMCHATKA 80859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 80861 12/25 20.54.27 53.0 162.0 3.6 N PAKISTAN 80861 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 80863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0829	12/17	00.32.23	44.7	149.3	4.8		
0831 12/17 00.52.13	0830			46.0	150.0	4.3		
0832 12/17 01.18.17	0831	12/17	00.52.13	45.0	150.0	3.8		
0833 12/17 01.22.32 45.0 149.0 4.1 L KURIL ISL 0836 12/17 01.26.04 44.7 149.0 3.7 L KURIL ISL 0836 12/17 02.14.21 44.0 148.0 3.7 L KURIL ISL 0836 12/17 05.45.58 44.7 149.3 4.6 P KURIL ISL 0837 12/17 06.24.52 44.6 149.4 4.9 P KURIL ISL 0838 12/17 06.54.07 38.0 69.0 3.4 N TADZHIK USSR 0839 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY 0840 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0842 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL REG 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE ISL 0845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN 0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0847 12/20 13.09.46 32.0 72.0 3.7 N PARISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L CENTRAL ITALY 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L KURIL ISL 08C KAMCHATKA 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0855 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0855 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0855 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0856 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0859 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0859 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PARISTAN 0866 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PARISTAN 0866 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PARISTAN 0866 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PARISTAN 0866 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0866 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0832			44.8	149.2	4.7	P	
0834 12/17 01.26.04 44.7 149.4 4.8 P KURIL ISL 0835 12/17 02.14.21 44.0 148.0 3.7 L KURIL ISL 0836 12/17 05.45.58 44.7 149.3 4.6 P KURIL ISL 0837 12/17 06.24.52 44.6 149.4 4.9 P KURIL ISL 0838 12/17 06.54.07 38.0 69.0 3.4 N TADZHIK USSR 0839 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY 0840 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0842 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL REG 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE ISL 0845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN 0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0847 12/20 13.09.46 32.0 72.0 3.7 N PARISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0849 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0852 12/22 03.13.44 55.0 164.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 03.13.44 55.0 164.0 4.1 L KURIL ISL 0857 12/25 12.30.53 35.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 09.14.04 40.6 27.4 3.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0833	12/17	01.22.32	45.0	149.0	4.1		
0835 12/17 02.14.21 44.0 148.0 3.7 L KURIL TSL 0836 12/17 05.45.58 44.7 149.3 4.6 P KURIL ISL 0837 12/17 06.24.52 44.6 149.4 4.9 P KURIL ISL 0838 12/17 06.54.07 38.0 69.0 3.4 N TADZHIK USSR 0839 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY 0840 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0842 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL REG 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE ISL 0845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN 0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L KOMONDORSKY ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 20.54.27 53.0 162.0 3.5 N PAKISTAN 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P SIRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0834			44.7	149.4	4.8	P	
0836 12/17 05.45.58	0835	12/17	02.14.21	44.0	148.0	3.7		
0837 12/17 06.24.52 44.6 149.4 4.9 P KURIL ISL 0838 12/17 06.54.07 38.0 69.0 3.4 N TADZHIK USSR 0839 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY 0840 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0842 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL REG 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE JSL 0845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN 0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0849 12/22 03.41.25 42.0 15.0 3.7 L CENTRAL ITALY 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L KURIL ISL 0851 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0851 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0859 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0836	12/17	05.45.58	44.7				
0838 12/17 06.54.07 38.0 69.0 3.4 N TADZHIK USSR 0839 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY 0840 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL PEG 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL PEG 0842 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL REG 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE TSL 0845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN 0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0849 12/22 00.34.25 42.0 15.0 3.7 L CENTRAL ITALY 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L KOMONDORSKY ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S STNKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0859 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0860 12/25 18.55.58 53.0 159.4 5.7 P OEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 5 IRAN 0863 12/27 18.55.58 53.0 159.4 5.7 P OEC KAMCHATKA 0861 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0837	12/17	06.24.52	44.6	149.4	4.9		
0839 12/17 07.35.31 87.0 96.0 4.0 L N OF SEV ZEMLY 0840 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL PEG 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL PEG 0842 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL REG 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE TSL 0845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN 0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0849 12/22 00.34.25 42.0 15.0 3.7 L CENTRAL ITALY 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0859 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0859 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0838	12/17	06.54.07	38.0	69.0	3.4		
0840 12/17 09.38.51 43.0 150.0 3.8 L KURIL ISL PEG 0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0842 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL REG 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE TSL 0845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN 0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0849 12/22 00.34.25 42.0 15.0 3.7 L CENTRAL ITALY 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L KURIL ISL 0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA—INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0859 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0839	12/17	07.35.31	87.0	96.0			
0841 12/17 12.38.12 46.0 151.0 3.7 L KURIL ISL 0842 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL REG 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE ISL 0845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN 0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0849 12/22 00.34.25 42.0 15.0 3.7 L CENTRAL ITALY 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L KURIL ISL 0EC KAMCHATKA 0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0859 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 08C KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 08661 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0840							
0842 12/17 12.44.30 34.3 26.2 4.7 P CRETE 0843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL REG 0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE TSL 0845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN 0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0849 12/22 00.34.25 42.0 15.0 3.7 L CENTRAL ITALY 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0841	12/17	12.38.12					
0843 12/17 20.48.20 49.0 160.0 3.8 L KURIL ISL REG   0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE ISL   0845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN   0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG   0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN   0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA   0849 12/22 00.34.25 42.0 15.0 3.7 L CENTRAL ITALY   0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL   0851 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL   0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL   0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA   0854 12/22 23.20.33 36.0 85.0 3.8 N SINKIANG   0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN   0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY   0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA   0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL   0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA   0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA   0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN   0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN   0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0842							·
0844 12/19 19.34.31 35.5 27.8 4.6 P DODECANESE TSL 0845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN 0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL TSL REG 0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0849 12/22 00.34.25 42.0 15.0 3.7 L CENTRAL ITALY 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L KURIL ISL 0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0859 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0869 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0843	12/17	20.48.20					
0845 12/20 04.15.29 31.0 67.0 4.3 N AFGANISTAN 0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0849 12/22 00.34.25 42.0 15.0 3.7 L CENTRAL ITALY 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L OEC KAMCHATKA 0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0844							
0846 12/20 11.09.02 50.0 159.0 4.1 L KURIL ISL REG 0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0849 12/22 00.34.25 42.0 15.0 3.7 L CENTRAL ITALY 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L OEC KAMCHATKA 0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0845							
0847 12/20 13.09.46 32.0 72.0 3.7 N PAKISTAN 0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0849 12/22 00.34.25 42.0 15.0 3.7 L CENTRAL ITALY 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L OEC KAMCHATKA 0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0846	12/20	11.09.02					
0848 12/21 12.31.05 54.0 162.0 4.2 L OEC KAMCHATKA 0849 12/22 00.34.25 42.0 15.0 3.7 L CENTRAL ITALY 0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L OEC KAMCHATKA 0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0847							
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0850 12/22 03.01.20 56.0 164.0 4.1 L KOMONDORSKY ISL 0851 12/22 03.13.44 55.0 164.0 4.1 L OEC KAMCHATKA 0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0849	12/22						
0851 12/22 03.13.44 55.0 164.0 4.1 L OEC KAMCHATKA 0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0850	12/22	03.01.20					
0852 12/22 07.33.07 49.0 156.0 4.1 L KURIL ISL 0853 12/22 18.42.39 24.0 94.0 3.9 N BURMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0851	12/22	03.13.44					
0853 12/22 18.42.39 24.0 94.0 3.9 N BHRMA-INDIA 0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0852	12/22	07.33.07					
0854 12/22 23.20.33 36.0 85.0 3.8 N S SINKIANG 0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0853	12/22	18.42.39	24.0				
0855 12/24 19.11.28 35.0 72.0 4.0 N PAKISTAN 0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0854	12/22	23.20.33		85.0			
0856 12/25 09.14.04 40.6 27.4 3.7 P TURKEY 0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL TSL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0855	12/24	19.11.28		72.0			
0857 12/25 12.30.53 53.1 162.9 4.8 P OEC KAMCHATKA 0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL TSL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0856	12/25	09.14.04	40.6				
0858 12/25 12.55.52 45.5 149.8 4.7 P KURIL ISL 0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0857	12/25	12.30.53					
0859 12/25 18.55.58 53.0 159.4 5.7 P NEC KAMCHATKA 0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0858	12/25	12.55.52					
0860 12/25 20.54.27 53.0 162.0 3.5 L OEC KAMCHATKA 0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0859							
0861 12/26 06.13.50 24.0 67.0 3.6 N PAKISTAN 0862 12/26 18.35.23 28.4 52.7 4.6 P S IRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0860							
0862 12/26 18.35.23 28.4 52.7 4.6 P S TRAN 0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0861							
0863 12/27 08.15.11 39.0 25.0 3.6 N AEGEAN SEA	0862							
0064 42400 00 50 40	0863	12/27	08.15.11					
	0864	12/28	02.59.18	46.0	151.0			

TO U	/ D.N.m.						
	FNT			PINATES			
NO.	DATE	О.Т.	LAT	LONG	MB		SEISMIC AREA
0865		04.26.59	50.0	78.0	4.5	I	F KAZAKH
0866		05.24.44	40.8	20.6	3.5	P	GREECE-ALBANIA
0867	12/28	21.52.19	49.0	157.0	4.1	Ĺ	
0868		05.02.44	56.0	163.0	4.3	I.	KURIL ISL REG
0869		11.26.29	53.8	169.0	4.3		OEC KANCHATKA
0870	12/30	05.25.49	30.0	85.0	4.1	P	KOMANDORSKY
0871	12/30	07.45.43	44.0	149.0		N	TIBET
0872	12/30	09.08.08	32.0	48.0	3.8	L	KURIL ISL
0873		13.29.36	33.7		3.8	N	TRAN-TRAQ BOR
0874	12/30	15.21.07	40.4	87.6	4.5	P	TIBET
0875		23.54.06	33.6	25.8	4.4	P	AEGEAN SEA
0876		00.56.53		87.7	4.9	P	ттвет
0877		02.49.24	33.0	88.0	4.1	N	TIBET
0878	01/01	03.13.12	36.0	85.0	3.8	N	S SINKIANG
0879	01/01	08.17.36	54.0	161.0	3.5	I.	NKAM
0890		01.50.28	55.0	166.0	3.6	T.	NKAM
0881			38.2	20.2	4.3	P	GTUR
0882	01/02	22.25.57	31.2	88.1	5.2	P	CENA
0883		06.17.10	51.0	157.0	4.1	T.	SKAM
0884	01/03	14.22.48		85.0	3.7	N	CENA
0885	01/03	14.31.04		71.9	5.5	P	CENA
	01/03	15.05.16		72.1	4.8	P	CENA
0886		17.04.43	34.0	72.0	3.8	N	CENA
0887	91/03	20.36.06	39.0	72.6	4.7	P	CENA
ሰብባል	01/04	13.35.56	51.0	158.0	3.5	L	SKAM
1889	01/05	00.29.25	56.0	162.0	3.4	I.	NKAM
0890	01/05		35.8	21.8	5.3	P	GTUR
0891		07.28.23		22.0	4.0	L	GTUR
0892	01/05	19.12.12	35.6	21.9	4.3	P	GTUR
0893	01/06	15.05.38		155.5	4.7	P	SKAM
U894	01/08	23.17.30	52.0	159.0	3.9	I.	SKAM
0895		14.17.55	39.5	73.7	4.9	p	CENA
0896 0896		03.02.32		68.3	4.8	P	CENA
0897		03.24.11	37.8	21.3	5.0	P	GTUR
0898		17.02.56	31.2	51.3	4.4	R	STRA
OROG		02.57.55	56.1	164.1	4.3	p	NKAM .
0900		04.04.41	37.0	70.0	3.9	N	CENA
0901		08.15.05	53.0	163.0	3.8	L	NKAM
0902		17.35.49	38.0	70.0	3.7	N	CENA
0903		19.10.24	30.0	52.0	3.9	N	STRA
0904		22.10.48	54.0	161.0	3.9	L	NKAM
0905		11.53.36	34.0	74.0	3.8	N	CENA
0906		01.46.49	30.0	51.0	3.6	N	STRA
0907	01/14	23.03.24	30.0	51.0	4.2	N	STRA
0908	01/15	12.55.44	40.4	91.1	5.1	F.	CENA
0909		14.42.07	40.4	91.1	4.7	P	CENA
0910		18.48.43	36.1	73.4	3.8	P	CENA
0311		21.31.26	33.2	75.7	5.1	P	CENA
0912	0.1 / 16	22.45.16	35.1	22.6	4.5	p	GTUR

EV	ENT		COORD	INATES			
NO.	DATE	0.T.	T.AT	LONG	MP		SEISMIC AREA
							Bullyare anna
0913	01/16	23.38.39	33.0	76.0	3.7	N	CENA
0914	01/18	06.47.28	14.9	99.6	4.6	P	CENA
0915	01/18	11.08.11	32.7	68.4	4.9	P	CENA
0916		03.15.39	32.7	68.4	4.5	2	CENA
0917	01/19		36.7	57.5	3.8	P	CASP
0918	01/19		32.7	68.3	5.0	P	CENA
0919	01/19	18.42.41	35.0	71.0	3.6	N	CENA
0920	01/20		45.0	96.0	3.7	H	CENA
0921	01/20		31.0	67.0	3.9	N	CENA
0922	01/20	14.31.54	31.0	67.0	4.0	N	CENA
0923	01/20	22.40.47	45.0	149.0	3.9	L	KIIRS
0924	01/21		41.0	71.0	4.3	L	CPNA
0925		07.36.03	49.0	155.0	4.0	ī	SKAM
0926	01/23	11.31.48	40.4	91.0	4.9	P	CENA
0927	01/23	11.46.42	34.3	25.1	4.6	P	GTUR
0928	01/23	16.47.38	45.0	150.0	3.4	ī.	KUPS
0929	01/24		41.0	82.2	5.1	P	CENA
0930		03.29.52	41.0	84.0	4.5	1.	CENA
0931	01/24	15.33.28	32.0	76.0	3.7	N	CENA
0932	01/25	18. 32.27	54.6	161.6	5.3	P	NKA 4
0933	01/26		37.0	19.0	4.7	ī.	GTUR
0934	01/26		35.0	24.0	3.7	L	GTUR
0935	01/26	22.02.11	44.0	149.0	4.0	I.	KURS
0936	01/27		45.0	150.0	3.8	I.	KURS
0937	01/27		50.4	156.8	5.2	P	SKAM
0938		08.57.54	36.0	74.0	4.0	N	CENA
0939		20. 35.55	38.2	19.5	4.3	P	GTUR
0940		04.32.06	35.8	73.3	5.0	P	CENA
0941	01/29		38.2	19.9	4.3	P	GTUP
0942		13.24.50	35.0	54.0	4.5	L	CASP
0943	01/30		55.0	162.0	4.5	L	NKAM
0944		05.41.44	38.7	26.2	3.9	P	GTUR
0945		05.50.39	38.0	23.0	3.6	L	GTUR
0946	01/30	11.10.12	42.7	94.3	4.3	P	CENY.
0947		12.01.09	39.6	23.A	3.3	P	GTUR
0948		22.47.12	41.1	20.1	3.8	P	GTUR
0949		05.02.58	49.8	78.2	5.6	P	EKAZ
0950		07.29.47	31.7	100.0	4.9	P	CENA
0951		13.15.13	45.0	148.0	3.7	- 2	
0952		04.21.25	33.0	96.0	3.7	L	KURS
0953		06.15.48	27.0	95.0		N	CENA
0954		21.39.02	40.8	74.1	3.6	N	CENA
0955		17. 34.45	32.0	88.0	4.2	P	CENA
0956		18.10.00	40.2	33.9	4.5	N	CTUP
0957		05.55.14	34.4	23.8	4.5	P	GTUR
0958		14.31.41	35.0	72.0	3.9	P	GTUR
0959	02/20		53.6	169.6	4.6	N	CENA
0960	02/21	11.37.31	45.0	147.0		P	NKVM
	02/21	11. 17.31	43.0	147.11	3.7	L	KIIRS

NO. DATE	EV	ENT		COORD	TNATES			
0961 02/22 18.18.05 38.7 98.7 4.3 P CENA 0962 02/22 18.58.09 43.0 149.0 4.1 L KURS 0963 02/22 22.43.17 31.0 57.0 4.0 N STRA 0964 02/23 07.02.15 46.0 153.0 3.8 L KURS 0965 02/23 10.45.06 37.6 86.4 4.8 P CENA 0966 02/24 00.02.40 28.6 52.6 5.2 P STRA 0966 02/24 03.39.23 55.0 166.0 3.8 L NKAM 0967 02/24 04.39.23 55.0 166.0 3.8 L NKAM 0968 02/24 23.54.03 35.0 24.5 4.1 P GTUR 0969 02/25 03.54.13 44.8 148.2 4.3 P KURS 0970 02/25 04.40.36 56.0 164.0 33.5 L NKAM 0971 02/25 12.55.21 37.7 21.0 3.5 P GTUR 0971 02/25 12.55.21 37.7 21.0 3.5 P GTUR 0972 02/26 15.56.43 49.4 155.6 5.0 P SKAM 0974 02/26 08.16.58 49.4 155.6 5.0 P SKAM 0975 02/26 18.00.17 51.0 160.0 3.8 L SKAM 0976 02/26 18.00.17 51.0 160.0 3.8 L SKAM 0978 02/26 18.00.17 51.0 160.0 3.8 L SKAM 0978 02/26 20.22.28 36.0 74.0 3.8 N CENA 0979 02/26 20.22.28 36.0 74.0 3.8 N CENA 0980 02/26 20.22.3 12 40.0 20.1 4.6 P GTUR 0981 02/27 07.31.59 44.0 145.0 3.4 L KURS 0988 02/27 07.31.59 44.0 145.0 3.4 L KURS 0988 02/27 07.31.59 54.0 170.0 4.0 L NKAM 0989 02/28 06.55.39 50.1 156.9 5.5 P SKAM 0989 02/28 07.21.45 51.0 158.0 4.0 L SKAM 0989 02/28 07.21.45 51.0 159.0 3.8 L SKAM 0989 02/28 07.21.45 51.0 159.0 3.8 L SKAM 0999 02/28 07.47.09 34.0 67.0 4.2 N CENA 0999 02/28 08.07.45 51.0 158.0 4.0 L SKAM 0999 02/28 07.21.45 51.0 158.0 4.0 L SKAM 0999 02/28 08.47.16 50.0 157.0 4.0 L SKAM 0999 02/28 08.47.16 50.0 157.0 3.9 L SKAM 0999 02/28 11.06.00 50.0 157.0 3.9 L SKAM 0999 02/28 11.06.00 50.0 157.0 3.9 L SKAM 1000 02/28 11.55.8.29 51.0 156.0 3.9 N SKAM 1000 02/28 11.55.8.20 51.0 157.0 3.9 L SKAM 1001 02/28 11.55.8.20 51.0 158.0 3.9 L SKAM 1002 02/28 11.53.39 50.0 158.0 3.9 L SKAM 1003 02/28 11.53.39 50.0 158.0 3.9 L SKAM 1004 02/28 20.16.19 50.0 158.0 3.9 L SKAM			О.Т.			MR		CPTCMTC ADDA
0962 02/22 18.58.09 43.0 149.0 4.1 L KURS 0963 02/22 22.43.17 31.0 57.0 4.0 N STRA 0966 02/23 07.02.15 46.0 153.0 3.8 L KURS 0965 02/23 10.45.06 37.6 86.4 4.8 P CENA 0966 02/24 00.02.40 28.6 52.6 5.2 P STRA 0968 02/24 23.54.03 35.0 24.5 4.1 P GTUR 0969 02/25 03.54.13 44.8 148.2 4.3 P KURS 0970 02/25 04.40.36 56.0 164.0 3.5 L NKAM 0971 02/25 12.55.21 37.7 21.0 3.5 P GTUR 0971 02/25 12.55.21 37.7 21.0 3.5 P GTUR 0972 02/25 14.55.21 38.8 29.4 4.1 P GTUR 0973 02/26 02.57.54 56.0 162.0 4.2 L NKAM 0974 02/26 08.16.58 49.4 155.6 5.0 P SKAM 0975 02/26 15.6.43 49.4 155.6 5.0 P SKAM 0976 02/26 18.34.34 34.0 67.0 3.6 L KURS 0976 02/26 18.34.34 34.0 67.0 3.5 N CENA 0978 02/26 20.22.28 36.0 74.0 3.8 N CENA 0979 02/26 20.22.28 36.0 74.0 3.8 N CENA 0979 02/26 20.22.28 36.0 74.0 3.8 N CENA 0980 02/26 06.45.3 9 54.0 170.0 4.0 L NKAM 0983 02/27 07.31.59 44.0 145.0 3.4 L KURS 0983 02/27 07.31.59 44.0 156.0 4.2 L SKAM 0984 02/28 06.49.31 50.4 157.2 4.9 P SKAM 0986 02/28 06.55.39 50.1 156.6 6.3 P SKAM 0987 02/28 06.55.39 50.1 156.0 4.2 N SKAM 0989 02/28 07.47.09 34.0 67.0 4.0 L SKAM 0989 02/28 07.47.09 34.0 67.0 4.0 L SKAM 0999 02/28 07.47.09 34.0 67.0 4.0 L SKAM 0999 02/28 08.47.16 50.0 157.0 4.0 L SKAM 0999 02/28 08.47.16 50.0 156.0 3.6 L SKAM 0999 02/28 10.55.53 51.0 156.0 4.2 L SKAM 0999 02/28 10.55.53 51.0 156.0 4.2 L SKAM 0999 02/28 10.55.53 51.0 156.0 4.2 L SKAM 0999 02/28 11.53.39 50.0 158.0 3.9 L SKAM 0999 02/28 11.53.39 50.0 158.0 3.9 L SKAM 0909 02/28 11.53.39 50.0 158.0 3.9 L SKAM 0000 02/28 11.53.39 50.0 158.0 3.9 L SKAM 0000 02/28 11.53.39 50.0 158.0 3.9 L SKAM 0000 02/28 11.53.99 50.0 158.0 3.9 L SKAM 0000 02/28 11.53.99 50.0 158.0 3.9 L SKAM 0000 02/28 11.53.99 50.0 158.0 3.9 L SKAM		P.11 C.D	·/•··	DR 1	LUNG	nb		SEISHIC AREA
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0993       02/28 08.14.24       51.0       158.0       4.1       L       SKAM         0994       02/28 08.23.11       50.0       156.0       3.6       L       SKAM         0995       02/28 08.31.37       51.0       158.0       4.0       L       SKAM         0996       02/28 08.47.16       50.0       157.0       3.5       L       SKAM         0997       02/28 10.18.41       50.2       156.7       4.9       P       SKAM         0998       02/28 10.55.53       51.0       156.0       4.2       L       SKAM         0999       02/28 11.06.00       50.0       157.0       3.7       L       SKAM         1000       02/28 11.32.43       50.1       156.9       5.2       P       SKAM         1001       02/28 11.45.16       50.0       158.0       4.1       L       SKAM         1002       02/28 11.53.39       50.0       158.0       3.9       L       SKAM         1003       02/28 14.04.00       51.0       155.0       3.9       N       SKAM         1004       02/28 15.08.11       51.0       157.0       3.9       L       SKAM         1005       02/								
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0997       02/28       10.18.41       50.2       156.7       4.9       P       SKAM         0998       02/28       10.55.53       51.0       156.0       4.2       L       SKAM         0999       02/28       11.06.00       50.0       157.0       3.7       L       SKAM         1000       02/28       11.32.43       50.1       156.9       5.2       P       SKAM         1001       02/28       11.45.16       50.0       158.0       4.1       L       SKAM         1002       02/28       11.53.39       50.0       158.0       3.9       L       SKAM         1003       02/28       14.04.00       51.0       155.0       3.9       N       SKAM         1004       02/28       15.08.11       51.0       157.0       4.5       L       SKAM         1005       02/28       17.58.20       51.0       157.0       3.9       L       SKAM         1007       02/28       20.16.19       50.0       158.0       3.9       L       SKAM         1007       02/28       21.01.03       51.0       158.0       4.6       L       SKAM								
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1007 02/28 21.01.03 51.0 158.0 4.6 L SKAM								
				49.8	157.2	5.5	P	SKAM

E,	VENT		COOR	DINATES				
NO.	DATE	O.T.	LAT	LONG	MB		0775475	
			οn 1	1044	מנו		SEISMIC AF	REA
1009	03/0	1 04.10.31	50.0	158.0	0 2		0711	
1010	03/0		50.0	157.0	4.2	L	SKAM	
1011		1 04.30.02	51.0	158.0	4.0	L	SKAM	
1012	03/0	1 04.48.48	49.8	157.2	3.9	L	SKAM	
1013	03/0	09.33.16	51.0	158.0	4.5	P	SKAM	
1014	03/01	10.14.44	52.0	158.0	4.4	L	SKAN	
1015	03/01		50.0	155.0	3.9	L	SKAM	
1016	03/01	10.36.13	51.0	157.0	3.4	L	SKAM	
1017	03/01		42.0	97.0	4.2	L	SKAM	
1018		13.26.35	49.0	155.0	4.7	L	CENA	
1019	03/01	13.46.27	51.0	157.0		L	SKAN	
1020	03/01	16.30.12	51.0	158.0	4.0	L	SKAU	
1021	03/02	02.45.21	34.0	25.0	3.8 3.9	L	SKAN	
1022	03/02	06.32.39	51.0	157.0	4.1	L	GTUR	
1023	03/02	08.07.52	51.0	158.0	3.7	L	SKAN	
1024	03/02	10.24.45	50.0	158.0		L	SKAH	
1025	03/02	11.11.37	51.0	158.0	4.1	L	SKAM	
1026	03/02	12.00.18	39.0	73.0	3.7	L	SKAM	
1027	03/02	13.57.02	51.0	158.0		N	CENA	
1028	03/02	19.30.01	39.3	27.6	3.5 3.6	L	SKAM	
1029	03/03	02.42.09	50.4	156.2		P	GTUR	
1030	03/03	02.46.25	29.5	51.1	5.5 4.6	P	SKAM	
1031	03/03	08.21.10	46.0	151.0	3.5	P	STRA	
1032	03/03	09.12.11	51.0	158.0		L	KURS	
1033	03/03	10.22.46	40.2	78.8	4.6	L	SKAM	
1034	03/03	23.47.18	34.0	74.0	4.6	P	CENA	
1035	03/04	08.28.36	50.7	157.0	4.6	N	CENA	
1036	03/04	09.29.10	51.0	157.0	4.4	P	SKAM	
1037	03/04	11.24.52	51.0	159.0	3.7	L	SKAM	
1038	03/04	16.10.13	56.0	164.0	3.9	L	SKAM	
1039	03/04	17.57.43	54.8	161.5	6.1	L	NKAM	
1040	03/04	22.53.07	48.0	155.0	4.2	P I	NKAM	
1041	03/05	06.15.54	51.0	158.0	4.0	L	SKAM	
1042		15.40.33	38.7	20.2	3.7	P	SKAM	
1043	03/05	19.48.58	51.0	158.0	3.9		GTUR	
1044	03/05	21.21.17	40.0	76.0	3.4	N	SKAM	
1045	03/05	23.44.14	56.0	163.0	3.7	N L	CENA	
1046	03/06	02.19.08	50.0	158.0	3.6	L	NKAM	
1047	03/06	03.30.41	36.0	73.0	3.6	N	SKAM	
1048	03/06	12.21.33	38.7	23.6	4.0	P	CENA	
1049	03/06	18.09.52	35.0	72.0	3.6	N	GTUR	
1050	03/06	18.32.05	49.9	156.7	5.0	P	CENA Skam	
1051	03/06	19.11.24	36.0	78.0	3.6	N	CENA	
1052	03/07		41.7	20.0	4.0	p	GTUR	
1053	03/07	07.07.38	36.4	71.5	5.0	P	CENA	
1054	03/07	16.11.45	44.0	148.0	4.1	L	KURS	
1055	03/07	17.04.08	31.0	50.0	3.6	N	STRA	
1056	03/08	05.33.22	50.0	157.0	3.5	L	SKAM	
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FV	ENT		COORD	INATES			
NO.	DATE	O.T.	LAT	LONG	MB		SPISHIC AREA
1057		11.26.44	54.0	163.0	3.7	L	NKAH
1058		14.44.08	50.0	157.0	3.5	L	SKAH
1059		15.02.39	43.0	149.0	3.9	N	KURS
1060		15.03.24	51.0	158.0	4.2	L	SKAH
1061	03/08	20.12.27	51.0	158.0	4.5	I.	SKAM
1062		23.13.58	51.0	159.0	3.8	L	SKAH
1063		06.09.17	34.0	68.0	4.0	N	CENA
1064		11.45.00	48.0	97.0	3.8	N	CENA
1065		13.58.41	49.9	157.0	4.6	P	SKAM
1066		14.46.42	51.0	159.0	4.0	L	SKAM
1067		16.51.35	36.0	71.0	3.5	N	CENA
1068		19.41.34	49.0	155.0	4.2	L	SKAM
1069		21.35.08	25.0	92.0	3.8	N	CENA
1070		22.29.23	50.0	156.0	4.4	L	SKAM
1071		04.44.41	50.7	156.7	4.7	P	SKAM
1072		09.35.43	38.7	21.0	3.1	þ	GTUR
1073		11.30.06	35.0	23.0	3.7	L	GTUR
1074		15.33.03	49.0	155.0	4.4	L	SKAM
1075		16.07.45	49.0	156.0	3.9	I.	SKAM
1076		18.56.34	30.0	51.0	3.5	N	SIRA
1078		22.34.09	51.0	158.0	4.1	L	SKAM
		23.21.29	44.9	147.0	4.1	L	KURS
1079		13.35.03	25.0	93.0	3.6	N	CENA
1081		14.53.07	21.0	120.1	4.8	P	TWAN
1081		08.31.14	37.5	29.9	4.4	P	STOR
1083		11.14.23	43.6 50.1	147.8	4.3	P	KURS
1084		14.21.29	38.4	156.7	5.7	P	SKAM
1085		19.39.21	50.8	93.5	4.5	P	CENA
1096		20.30.43	35.9	157.1 21.7	6.1	P	SKAM
1087		22.10.13	34.0		4.7	P	GTUP
1088		04.04.18	49.0	24.0	4.0	l.	GTUR
1089		05.32.28	47.0	150.0	3.9 3.7	L	SKAM
1000		20.19.31	52.0	160.0	4.0	I.	KURS
1091		21.12.26	28.0	93.0	3.7	L	SKAM
1002		23.24.32	38.0	77.0	4.2	N	CENA CENA
1093		00.10.19	46.2	153.3	4.3	P	KURS
1094		10.52.53	50.0	158.0	3.9	L	SKAM
1095		19.09.21	23.0	92.0	4.1	N	CENA
1096		08.47. 15	54.0	160.0	3.5	L	SKAH
1097		99.15.40	31.0	51.0	3.6	N	
1098		18.08.48	39.3	29.2	3.9	P	STRA GTUR
1099	01/19	04.43.49	56.0	165.0	3.6	L	NKAM
1100	01/19	22.13.09	26.8	53.4	4.4	P	SIRA
1101	03/20	00.57.51	55.0	163.0	3.7	L	NKAM
1102		02.46.37	51.0	158.0	3.7	L	SKAM
1103		08.54.47	32.0	50.0	3.8	N	STRA
1104	03/20	14.27.57	49.0	155.0	4.5	N	SKAM
				The state of the s	-		

EV	ENT		COORI	TNAMEC					
NO.	DATE	О.Т.	LAT	INATES	M D			14 _ 1	
	V.11. 2	.,	EW (	LONG	MB		SEIS	MIC	AREA
1105	03/20	20.24.34	30.0	51.0	3.6	17	CIDA		
1106	03/21		50.8	157.2	5.2	N	STRA		
1107		08.16.23	37.1	30.2	4.3	P	SKAM		
1108	03/21	11.25.50	37.6	23.6	4.2	P	GTUR		
1109	03/21		35.0	24.0	3.9	P	GTUR		
1110	03/21		55.0	163.0		N	GTUR		
1111	03/21		31.0	50.0	3.5	L	NKAM		
1112	03/22		28.1	87.0	5.2	N	SIRA		
1113	03/22		31.0	99.0		P	CENA		
1114	03/22		53.0		4.0	N	CENA		
1115	03/22		44.0	160.0	4.2	L	SKAM		
1116		17.14.40	44.0	148.0	4.3	I.	KURS		
1117		23.44.31		149.0	3.8	I.	KURS		
1118		00.11,36	53.3	169.9	4.7	P	NKAM		
1119		02.08.30	53.4	169.8	4.6	L,	NKAM		
1120	03/23	03.59.13	35.9	21.8	4.0	P	GTUY		
1121	03/23	02.50.57	51.0	157.0	4.4	I	SKAM		
1122	03/24	05.22.56	51.0	158.0	4.5	I.	SKAM		
1123	03/74	07.14.26	46.0	152.0	3.9	I.	KURS		
1124			51.6	161.6	4.B	b	SKAM		
1125		14.36.58	56.0	162.0	3.7	I	NKAM		
1126		08.56.15	50.2	156.9	5.3	P	SKAM		
1127		14.28.00	45.0	147.0	3.4	Ī	KURS		
1128		21.11.05	51.0	158.0	4.7	T.	SKAM		
1129		22.55.54		20.4	3.5	þ	GTUP		
1130			55.0	166.0	3.7	I.	NKAMI.		
		02.16.31	24.0	123.0	3.9	N	TWAN		
1131		02.29.05	21.6	126.3	4.8	P	TWAN		
1132		02.37.21	23.4	123.0	5.5	P	TWAN		
1133	03/20	03.21.12	33.0	94.0	4.1	N	CENA		
1134	03/26	06.51.59	25.0	162.0	3.6	L	NKAM		
1135		08.44.26	37.0	74.0	3.8	N	CENA		
1136 1137		11.44.01	53.0	160.0	3.9	L	SKAM		
		03.11.33	35.0	27.0	3.8	N	CLUB		
1138		06.46.31	46.7	149.0	4.()	Ī.	KURS		
1139		15.38.24	38.4	21.1	4.1	P	GTUR		
1140		16.56.30	51.0	158.0	4.1	I.	SKAM		
1141		03.36.38	28.6	52.7	5.2	P	SIPA		
1142		08.58.33	45.0	149.0	4.0	I.	KURS		
1143		23.55.47	23.3	123.8	5.3	P	TWAN		
1144		00.19.19	24.0	124.0	4.3	N	TWAN		
1145		15.22.06	23.9	123.4	4.4	P	TWAN		
1146		18.06.36	49.0	97.0	3.8	N	CENA		
1147		02.16.16	26.0	125.0	4.5	L	TWNI		
1148		08.21.01	27.0	56.0	3.6	N	STRA		
1149		14.00.52	47.0	152.0	4.6	L	KURS		
1150		19.13.55	32.0	79.0	3.9	N	CENA		
1151		20.45.31	50.2	157.1	4.8	P	SKAM		
1152	04/01	08.45.31	55.()	161.6	4.7	Þ	NKAM		

EV	ENT		COOPT	INATES				
NO.	DATE	O.T.	LAT		MD		Antauta	
	D 11 1 1.1	0.1.	mu 1	LONG	MB		SEISMIC AREA	ł.
1153	04/01	09.45.21	41.0	72.0	3.8	M	CENA	
1154		14.30.50	41.0	70.0	3.8	N	CENA	
1155			37.7	69.0	4.4	N	CENA	
1156	04/02	04.04.33	38.1	70.0	3.8	P	CENA	
1157		05.50.32	38.0	69.0	3.7	P	CENA	
1158			45.9	151.1	5.0	N	CENA	
1159	04/03	14.57.52	31.0	51.0	3.8	P	KURS	
1160	04/03	22.19.43	38.0	69.0	4.0	N	SIRA	
1161	04/04	05.59.08		88.0	4.3	N	CENA	
1162	04/04	10.12.52	44.4	148.0	4.2	L	CENA	
1163	04/04	16.07.58	45.0	149.0	3.8	P	KURS	
1164	04/04	17.53.08		83.7	4.8	L	KURS	
1165	04/04	21.31.33	44.2	146.0	4.3	P	CENA	
1166	04/04	21.50.53	43.4	147.7	5.2	P	KURS	
1167	04/04	22.10.16		75.0	3.7	P	KURS	
1168	04/04	23.56.43	43.3	147.8	5.3	P	CENA	
1169	04/05	01.01.52	43.0	147.0	3.6	P	KURS	
1170	04/05	12.14.44	43.6	146.4	4.1	L	KURS	
1171	04/05	19.24.01		50.5	4.0	P	KURS	
1172	04/05	22.16.59	43.6	147.7	5.4	P	SIRA	
1173	04/05	22.26.16	44.0	147.0	3.9	P	KURS	
1174	04/05	22.35.28	43.7	147.7	4.7	L	KURS	
1175		22.41.56	43.5	147.7	4.1	þ	KURS	
1176	04/05	23.06.51		147.8	4.5	P	KURS	
1177	04/05	23.32.22		147.7	4.2	P	KURS	
1178	04/05	23.33.57	43.2	147.8		P	KURS	
1179	04/06	00.00.43		147.7		P	KURS	
1180	04/06	00.01.56	43.7	147.6	5.3	P P	KURS	
1181	04/06	00.37.44		148.0	3.4	L	KURS	
1182	04/06	01.48.00	43.7	147.8	5.4		KURS	
1183	04/06	01.57.10		147.6	4.5	P	KURS	
1184		02.13.15		150.0		P L	KURS	
1185		03.04.26	43.8	147.7	4.2	P.	KURS	
1186		03.51.48	44.0	148.0	3.5		KURS	
1187		05.40.52	43.4	147.7	4.1	L	KURS	
1188		05.40.29	44.0	148.0	3.7	P L	KURS	
1189		06.40.16	44.0	148.0	3.3	L	KURS	
1190	04/06	07.09.19	43.6	147.6	4.4	Þ	KURS	
1191		07.12.08	43.5	147.7	4.1	P	KURS	
1192	04/06	07.32.11	43.9	147.7	4.1		KURS	
1193	04/06	09.21.51	43.0	147.0	3.6	P	KURS	
1194		10.44.04	43.7	147.6	4.2	L P	KURS	
1195	•	12.28.31	43.0	147.0	3.7		KURS	
1196		14.45.53	43.8	147.6	4.3	L	KURS	
1197		14.56.37	44.0	148.0	3.6	P L	KURS	
1198	_	14.58.01	43.5	147.6	4.9	P	KURS	
1199	_	15.09.04	43.5	147.7	4.5	p	KURS Kurs	
1200	04/06	15.59.51	18.0	121.0	4.2	N	TWAN	
							17 74	

ΕA	PNT		COORD	INATES			
NO.	DATE	О.Т.	LAT	LONG	MB		CRICATO ADDA
	0411		UNI	LONG	n D		SETSMIC AREA
1201	04/06	19.05.08	44.0	148.0	4.2	N	KURS
1202	04/06	19.07.45	44.0	148.0	4.2	N	KURS
1203	04/07		45.0	149.0	3.4	L	
1204		07.24.09	47.0	153.0	3.7	L	KURS Kurs
1205	04/07		27.9	52.5	4.3	P	SIRA
1206	04/07		38.0	78.0	3.9	N	CENA
1207	04/07	-	50.0	158.0	3.6	L	SKAM
1208	04/07		43.6	147.8	4.1	P	KURS
1209	04/07		43.0	148.0	3.7	L	KURS
1210	04/07		44.0	148.0	3.6	L	KURSI.
1211		03.52.17	38.0	75.0	3.8	N	CENA
1212		06.39.25	52.1	158.6	4.3	P	SKAM
1213		06.55.59	45.0	150.0	3.7	I.	KURS
1214		12.23.33	52.0	159.0	3.4	L	
1215		15.53.46	34.0	72.0	3.6	N	SKAM Cena
12 16		03.08.00	36.0	94.0	3.8	N	CENA
1217		06.35.37	43.0	147.0	3.8	N	
12 18		14.32.31	51.0	158.0	4.2	L	KURS Skam
1219		06.40.13	36.0	73.0	3.7	N	
1220		10.47.39		86.0	3.9	N	CENA
1221		11.18.04	27.0	90.0	3.8	N	CENA
1222		18.17.40	45.0	148.0	3.7	N	CENA
1223		19.16.24	53.0	161.7	5.1	P	KURS
1224			36.0	73.0	3.8	N	SKAM
1225		12.17.16	31.0	51.0	3.6	N	CENA
1226		13.46.11	53.0	163.0	3.7	L	STRA
1227			41.8	77.5	4.7	P	NKAM
1228		20.01.46	35.0	72.0	3.7	N	CENA
1229		03.13.11	51.0	158.0	4.1	L	CENA
1230		06.11.18	45.0	148.0	3.5	L	SKAM Kurs
1231		03.37.48	33.3	68.1	5.1	P	CENA
1232		22.09.49	50.8	157.5	5.6	p	SKAM
1233		09.30.54	45.0	145.0	3.2	L	KURS
1234		10.25.55	56.0	170.0	3.4	L	NKAI
1235		13.17.22	45.0	145.0	3.6	L	KURS
1236		04.32.57	50.0	77.7	5.4	P	EKAZ
1237		15.25.16	43.0	148.0	4.2	N	
1238		22.04.24	39.0	82.0	3.4	N	KURS
1239		23.04.34	28.2	53.5	4.4		CENA
1240		21.12.33	35.0	72.0	4.0	P	SIRA
1241		00.27.54	36.0	77.0	3.4	N N	CENA
1242		12.54.38	45.0	149.0	4.0		CENA
1243	04/21	13.25.03	41.0	73.0	4.2	L N	KURS
1244		18.09.03	46.0	149.0	3.5	N	CENA
1245	04/21	19.33.56	56.0	162.0	3.7	N	KURS NKAM
1246	04/23		28.0	93.0	3.6	N	
1247		18.31.46	54.0	163.0	4.0	L	CENA NKAM
1248		03.35.36	51.0	158.0	3.9	L	SKAM
· <del>-</del>			2100	1.700	., , ,	L	SURIT

FV:	ENT		COORD	TNATES			
NO.		O.T.	LAT	LONG	MP		SEISMIC AREA
							DITO AREA
1249	04/24	05.20.20	46.0	149.0	4.0	I.	KURS
1250	04/24	20.15.37	49.0	155.0	4.1	I	SKAM
1251	04/24	20.43.33	54.0		3.9	L	SKAM
1252	04/25	00.00.26	50.0	158.0	3.4	I.	SKAM
1253	0"/25	02.11.13			3.8	I,	KURS
1254	04/25	08.35.37	26.8	55.4	4.6	P	SIRA
1255	04/25	09.32.30	56.0	161.0		L	NKAM
1256	04/58	09.41.24	56.0	163.0	3.3	L	NKAM
1257	14/27	12.39.48	55.0	164.0	3.9	I.	NKAM
1258	04/27	15.19.40	43.0	146.0	3.9	N	KURS
1259		19.13.10	48.0	156.0	4.0	Ī	SKAM
1260		21.36.19	56.8	161.7	4.8	P	NKAM
1261		21.49.58	57.0	162.0	3.5	L	NKAM
1262		06.00.19		161.0	3.7	Ī.	NKAM
1263	04/30	07.29.48	50.0	89.7		P	CENAP
1264	01/30	09.20.36	56.0	162.0	3.8	I.	NKAMI.
1265	04/30	14.45.33	54.0	160.0	3.7	Ī	SKAML
1266	07/10	01.26.58	49.8	78.1	5.4	P	FKAZ
1267		91.22.58		78.9	6.3	P	EKAZ
1268		01.59.58		67.4	5.3	P	CKAZ
1269			50.5	68.4	5.3	P	CKAZ
1270		06.59.54	73.3	55.2	6.8	P	NVZ
1271	•	12.59.57	45.6	67.8	5.2	P	CKAZ
1272		06.59.58	70.8	53.9	6.0	P	NVZ
1273		14.59.58	51.6	54.6	5.2	P	WRS
1274		04.26.58	49.8	78.2	5.3	P	FKAZ
1275		05.59.58		55,4		P	URALS
1276		16.59.57	70.8	54.2	6.9	P	NVZ
1277		08.03.56	-	53.2		P	NV 7.
1278	10/27	18.21.21	70.9	52.9	4.4	P	NVZ
1279	10/27	09.13.51	71.3	51.9	4.8	P	NVZ
1280	12/14	07.46.57	50.0	79.0	6.0	P	FKAZ

### Abbreviations:

I = ISM

L = LASA

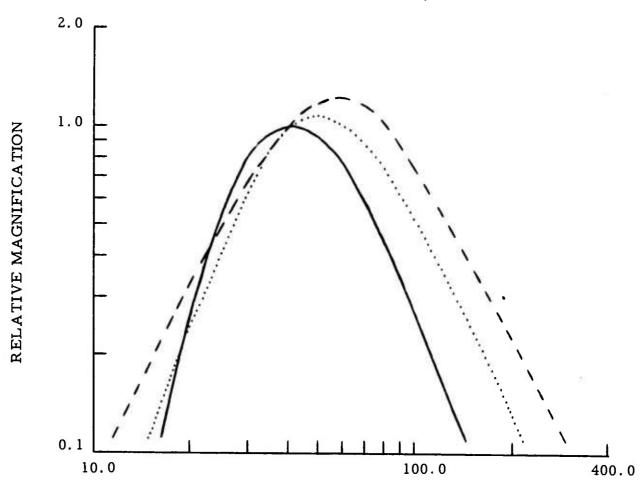
N = NORSAR

P = PDE

APPENDIX II-B

VLPE SYSTEM RESPONSE CURVES

# SYSTEM RESPONSE FOR CTA PRIOR TO FEBRUARY 1, 1973



T = PERIOD (Seconds)

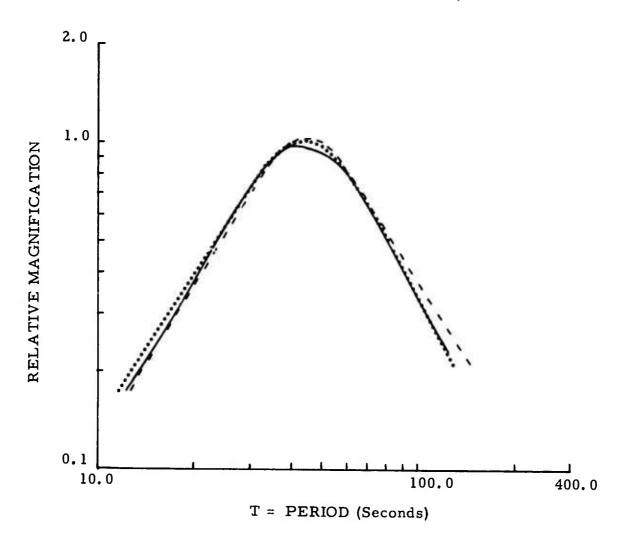
Gain at T = 40.0 Sec.

 $Z = 0.721 \,\mathrm{m}_{\mu}/\mathrm{count}$ 

--- N 1.48 m $\mu$ /count

 $E 1.28 \text{ m}\mu/\text{count}$ 

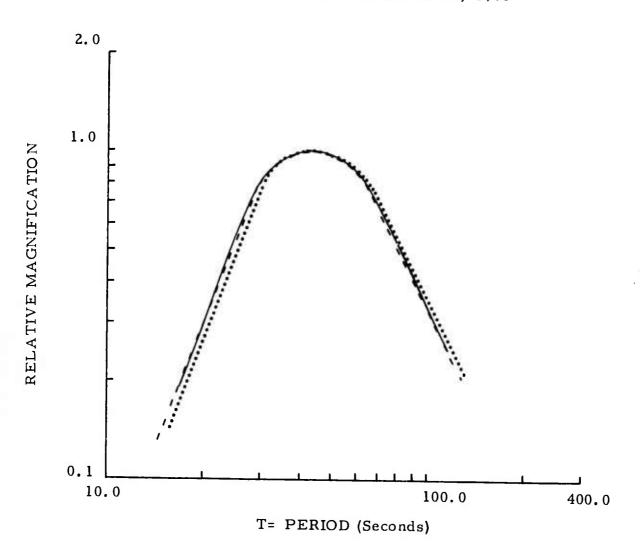
## SYSTEM RESPONSE FOR CTA FEBRUARY 1, 1973 TO APRIL 4, 1973



Gain at T = 40.0 Sec.

 2	1.07	$m\mu$ /count
 N	0.555	$m\mu$ /count
 E	0 694	mu/count

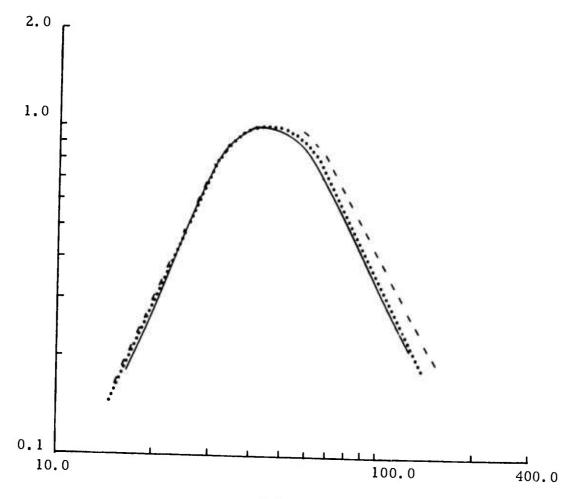
### SYSTEM RESPONSE FOR CTA APRIL 4, 1973 TO APRIL 27, 1973



Gain at T = 40.0 Sec.

Z 1.163 m $\mu$ /count N 0.667 m $\mu$ /count E 0.775 m $\mu$ /count

## SYSTEM RESPONSE FOR CTA APRIL 27, 1973 TO JUNE 19, 1973



RELATIVE MAGNIFICATION

T = PERIOD (Seconds)

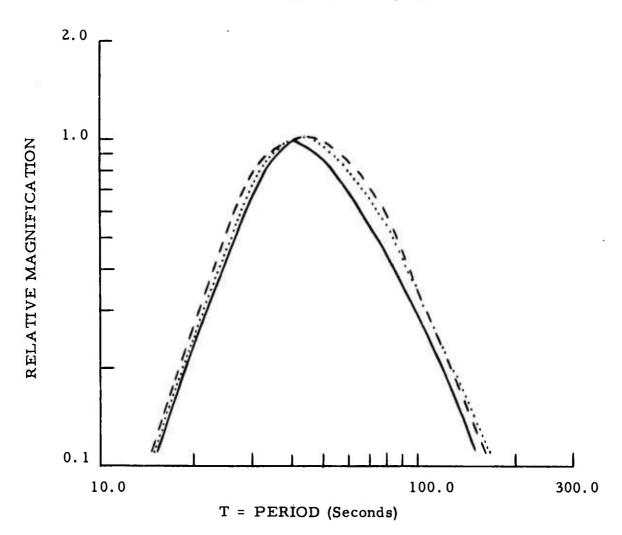
Gain at T = 40.0 Sec.

Z 1.190 m $\mu$ /count

N 0.662 mμ/count

 $E = 0.690 \text{ m}\mu/\text{count}$ 

#### SYSTEM RESPONSE FOR CHG PRIOR TO MARCH 6, 1973



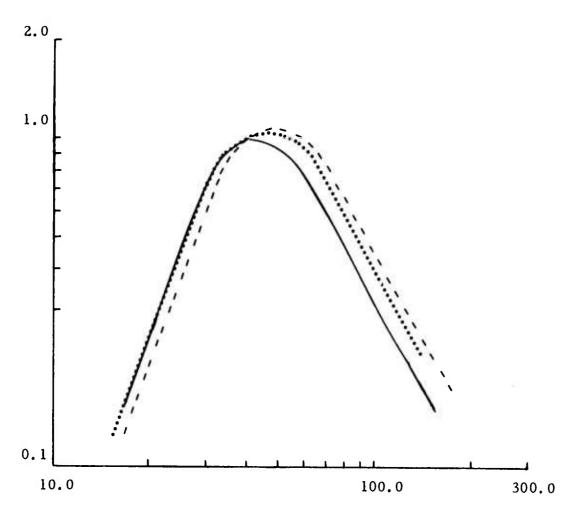
Gain at T = 40.0 Sec.

 $\sim$  Z 0.806 m $\mu$ /count

- - N 1.14 m $\mu$ /count

... E 0.806 m $\mu$ /count

#### SYSTEM RESPONSE FOR CHG MARCH 6, 1973 TO APRIL 1, 1973



RELATIVE MAGNIFICATION

T = PERIOD (Seconds)

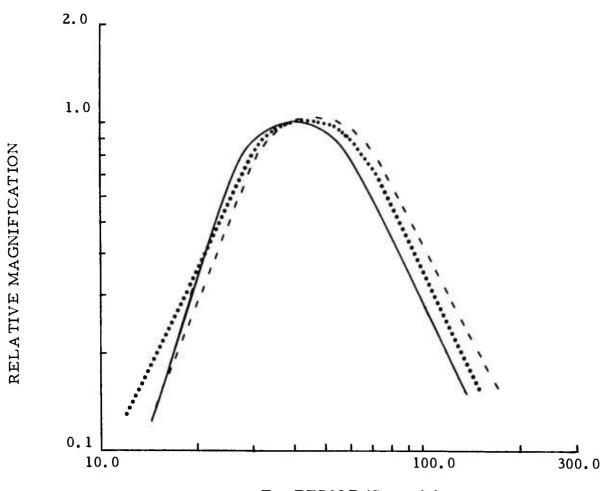
Gain at T = 40.0 Sec.

 $\sim$  Z 0.800 m $\mu$ /count

---- N 0.980 m $\mu$ /count

 $E 0.943 \text{ m}\mu/\text{count}$ 

#### SYSTEM RESPONSE FOR CHG APRIL 1, 1973 TO AUGUST 16, 1973



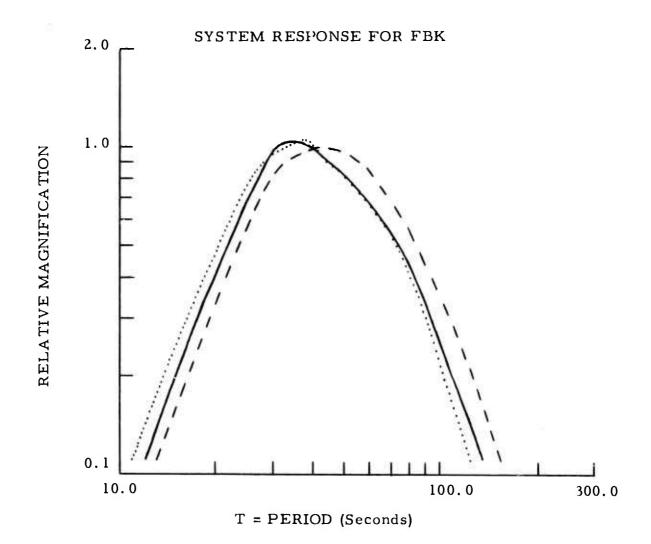
T = PERIOD (Seconds)

Gain at T = 40.0 Sec.

- Z 1.075 m $\mu$ /count

--- N 0.921 m $\mu$ /count

 $E 0.779 \text{ m}\mu/\text{count}$ 



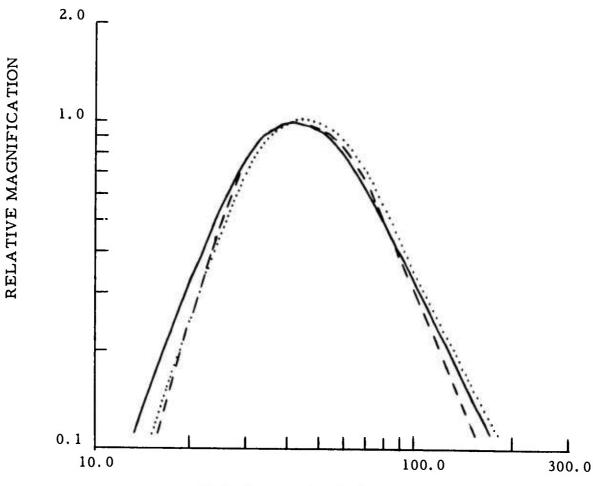
Gain at T = 40.0 Sec.

Z 1.33 m $\mu$ /count

N 1.64 m $\mu$ /count

 $\dots$  E 1.26 m $\mu$ /count

# SYSTEM RESPONSE FOR TLO PRIOR TO MARCH 1, 1973



T = PERIOD (Seconds)

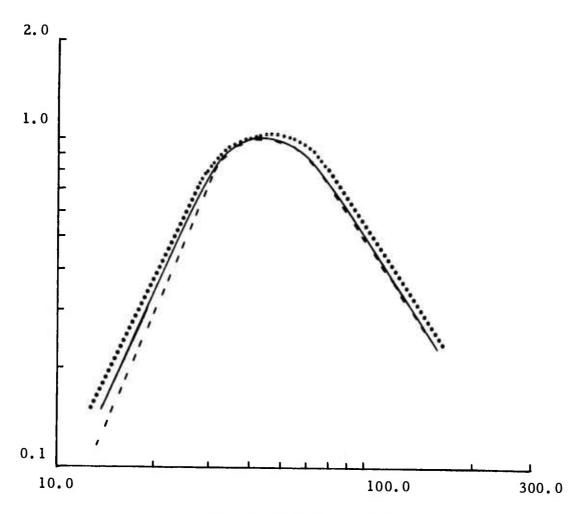
Gain at T = 40.0 Sec.

 $\underline{\hspace{1cm}}$  Z 0.708 m $\mu$ /count

 $\sim --$  N 0.625 m $\mu$ /count

 $\dots$  E 0.584 m $\mu$ /count

# SYSTEM RESPONSE FOR TLO MARCH 1, 1973 TO MARCH 31, 1973



RELATIVE MAGNIFICATION

T = PERIOD (Seconds)

Gain at T = 40.0 Sec.

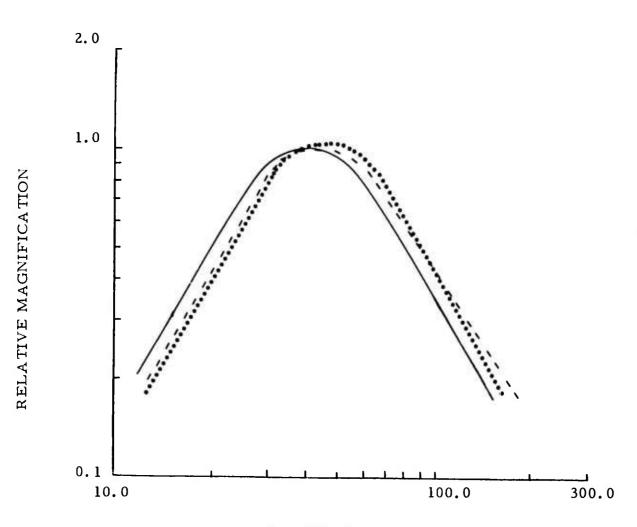
 $\sim$  Z 1.176 m $\mu$ /count

N 0.752 m $\mu$ /count

E 0.855 m $\mu$ /count

II-B-11

# SYSTEM RESPONSE FOR TLO MARCH 31, 1973 TO APRIL 28, 1973



T = PERIOD (Seconds)

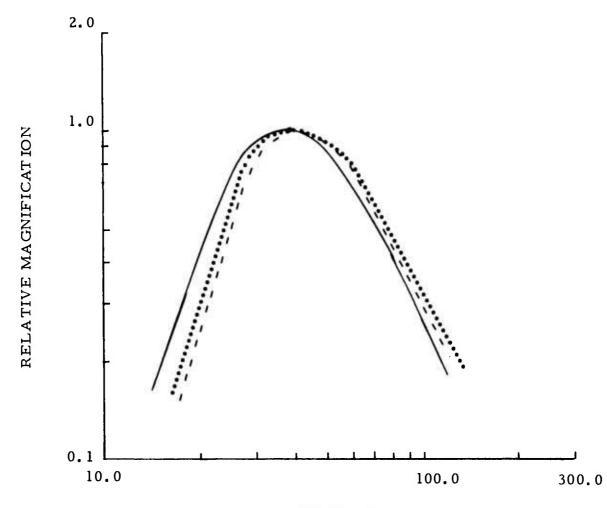
Gain at T = 40.0 Sec.

 $\sim$  Z 1.205 m $\mu$ /count

---- N 0.690 m $\mu$ /count

.... E 0.847 m $\mu$ /count

# SYSTEM RESPONSE FOR TLO APRIL 28, 1973 TO DECEMBER 5, 1973



T = PERIOD (Seconds)

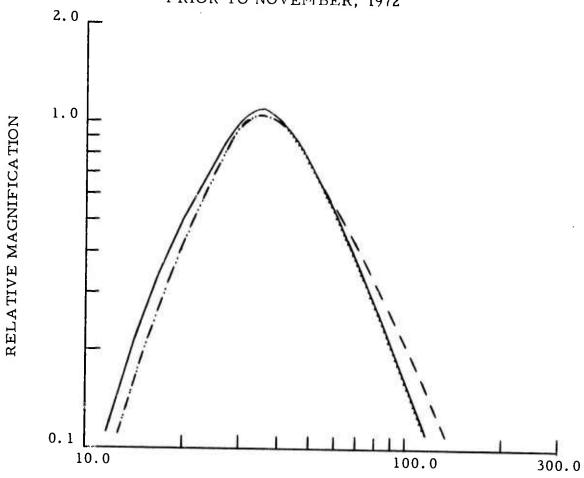
Gain at T = 40.0 Sec.

 $Z = 1.005 \,\mathrm{m}\mu/\mathrm{count}$ 

N 0.549 m $\mu$ /count

 $E 0.769 \,\mathrm{m}\mu/\mathrm{count}$ 





T = PERIOD (Seconds)

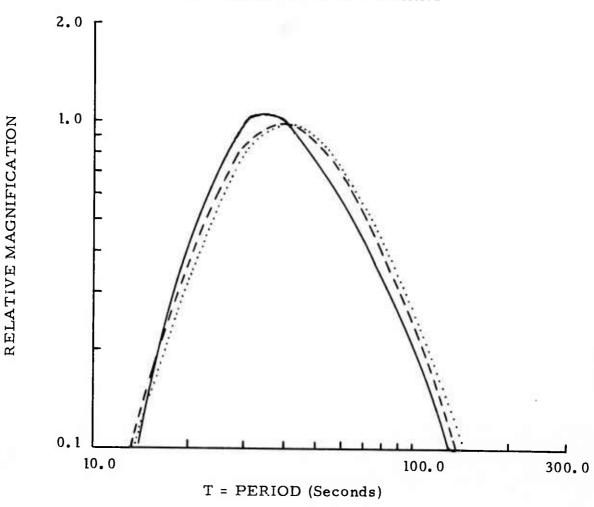
Gain at T = 40.0 Sec.

 $\sim$  Z. 0.794 m $\mu$ /count

--- N 1.34 m $\mu$ /count

 $\dots$  E 1.75 m $\mu$ /count

# SYSTEM RESPONSE FOR EIL NOVEMBER 1972 TO PRESENT



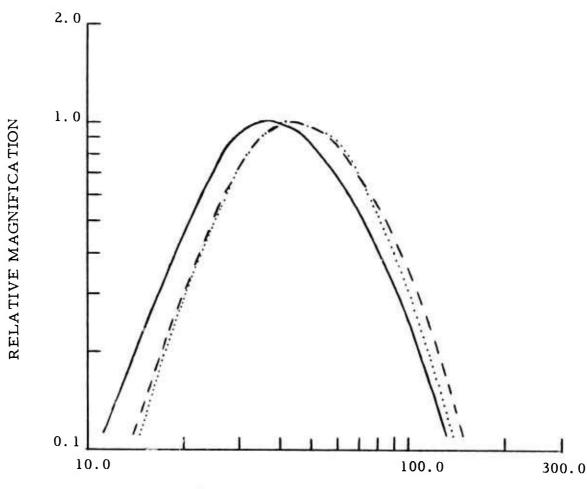
Gain at T = 40.0 Sec.

Z 1.701 m $\mu$ /count

N l. 441 m  $\mu$  /count

 $\cdot \cdot \cdot$  E 1.774 m  $\mu$  /count

#### SYSTEM RESPONSE FOR KON



T = PERIOD (Seconds)

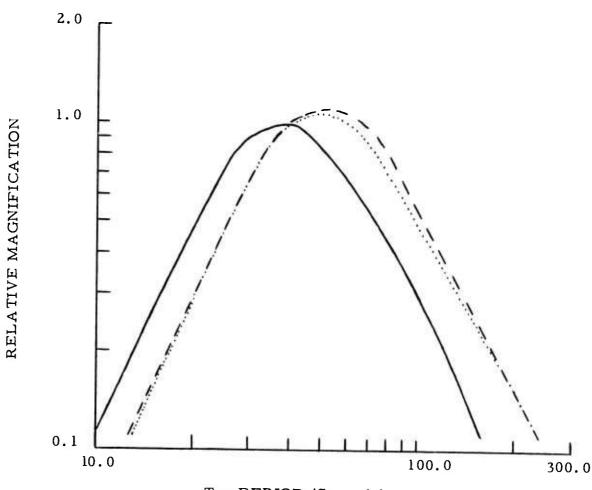
Gain at T = 40.0 Sec.

Z 0.656 m $\mu$ /count

N 0.530 m $\mu$ /count

 $\dots$  E 0.470 m $\mu$ /count

#### SYSTEM RESPONSE FOR OGD



T = PERIOD (Seconds)

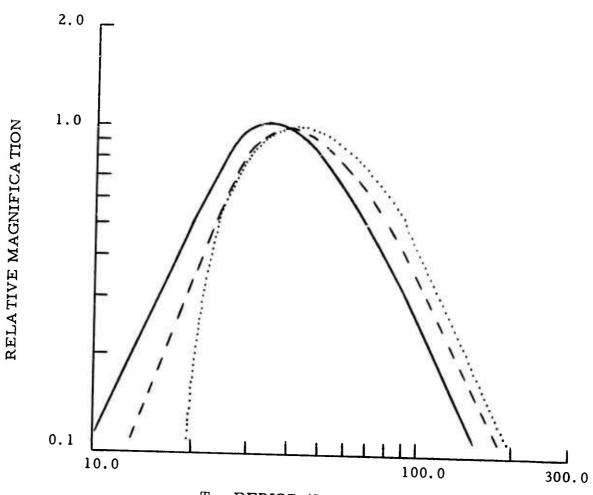
Gain at T = 40.0 Sec.

 $\sim$  Z 0.927 m $\mu$ /count

 $N = 0.355 \text{ m} \mu/\text{count}$ 

 $\dots$  E 0.397 m $\mu$ /count

# SYSTEM RESPONSE FOR KIP



T = PERIOD (Seconds)

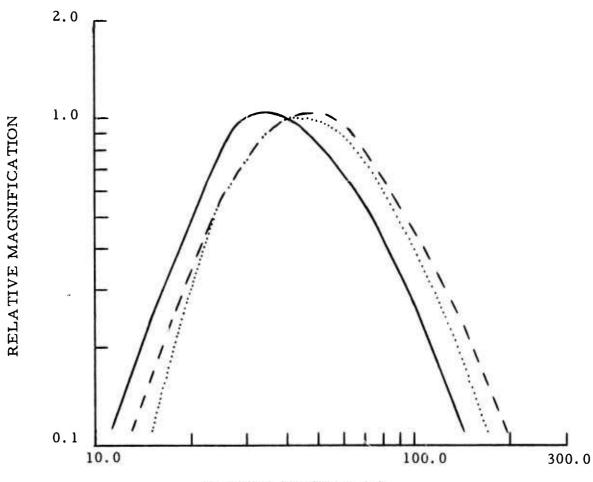
Gain at T = 40.0 Sec.

- Z 1.15 m $\mu$ /count

- - - N 1.41 m $\mu$ /count

 $\cdots$  E 1.14 m $\mu$ /count

# SYSTEM RESPONSE FOR ALQ PRIOR TO MARCH 1, 1973



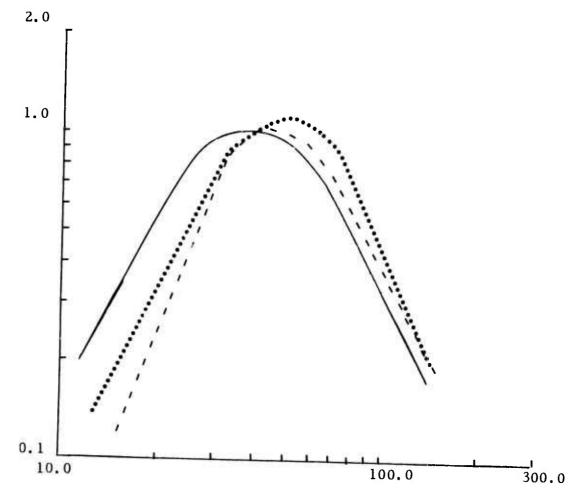
T = PERIOD (Seconds)

Gain at T = 40.0 Sec.

 $Z = 1.12 \text{ m}\mu/\text{count}$ 

--- N 0.697 m $\mu$ /count

... E 0.819 m $\mu$ /count



T = PERIOD (Seconds)

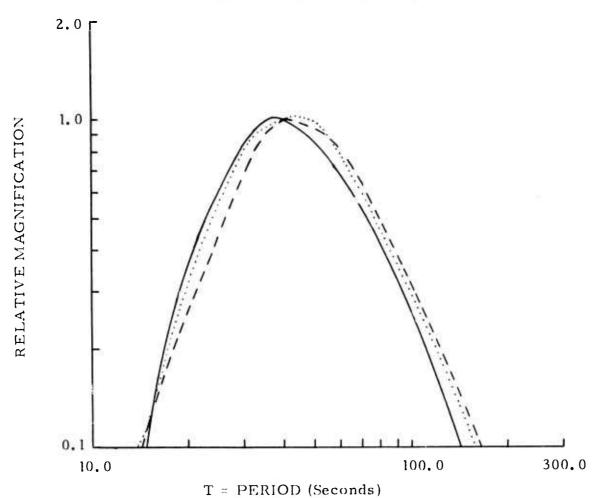
Gain at T = 40.0 Sec.

\_\_\_\_ Z 1.144 mμ/count

N 1.071 mμ/count

... E 0.980 m $\mu$ /count

# SYSTEM RESPONSE FOR ZLP PRIOR TO FEBRUARY 1, 1973



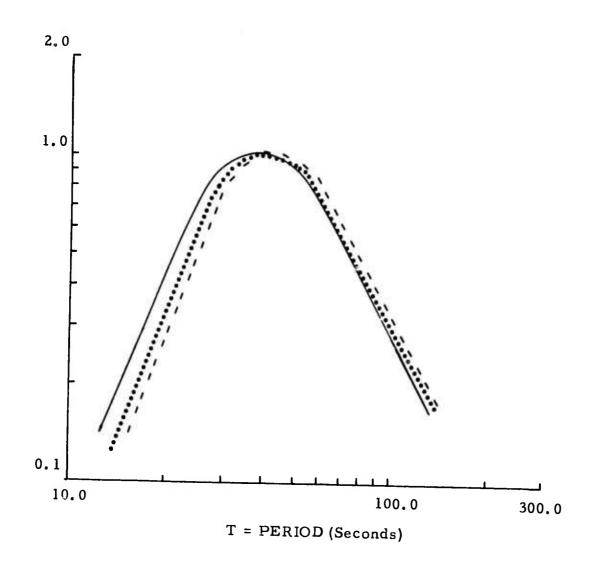
Gain at T = 40.0 Sec.

 $Z = 1.354 \text{ m} \mu / \text{count}$ 

N 1.372 m $\mu$  /count

 $_{*}$  . E 1.187 m $\mu$  /count

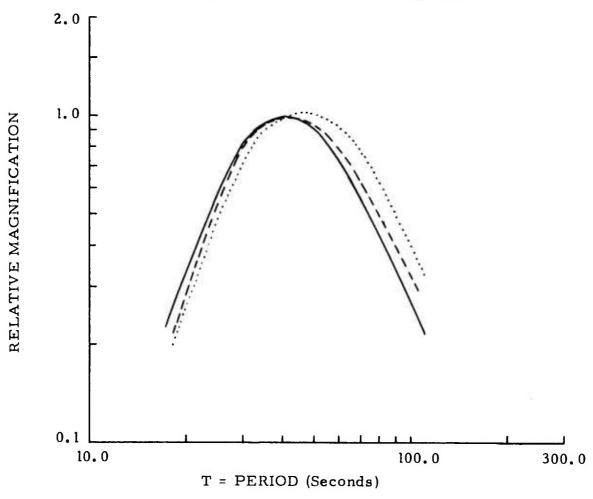
#### SYSTEM RESPONSE FOR ZLP FEBRUARY 1, 1973 TO PRESENT



Gain at T = 40.0 Sec.

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# SYSTEM RESPONSE FOR MAT PRIOR TO FEBRUARY 15, 1973



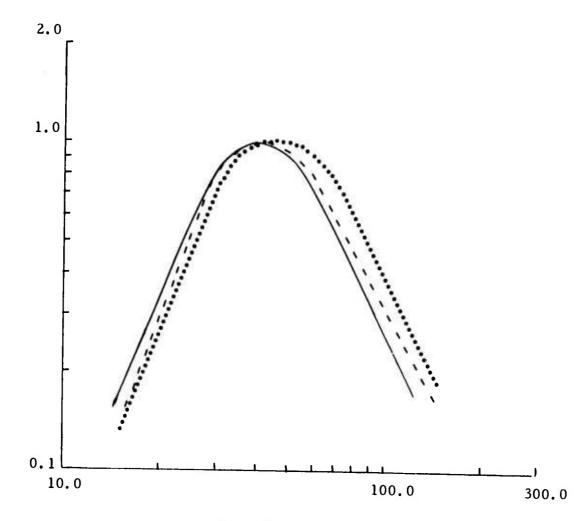
Gain at T = 40. J Sec.

Z 1.460 m μ / count

N 0.786 m $\mu$ /count

E 1.120 m $\mu$ /count

# SYSTEM RESPONSE FOR MAT FEBRUARY 15, 1973 TO SEPTEMBER 10, 1973



RELATIVE MAGNIFICATION

T = PERIOD (Seconds)

Gain at T = 40.0 Sec.

 $\sim$  Z 0.685 m $\mu$ /count

---- N 1.272 mμ/count

.... E 0.893 m $\mu$ /count

APPENDIX II-C

BASIC DATA FOR

CHARTERS TOWERS, AUSTRALIA (CTA)

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	CONNENT
310	68.4	3.90	0.0	0 0		_	
311	97.7	3.60	4.15	0.0	0.0	0.0	20 <b>1</b>
312	75.3	3.70	0.6	3.93	0.0	1.25	10 1
313	127.3	4.10	0.0	0.0 0.0	0.0	0.0	20 <b>1</b>
314	76.6	3.80	0.0	0.0	0.0	0.0	20 1
3 1 5	102.6	4.10	0.0	0.0	0.0	0.0	20 1
316	70.3	3.80	4.18	3.80	0.0 3.11	0.0	20 1
3 17	85.8	3.80	0.0	0.0	0.0	0.34	10 1
3 18	85.8	3.70	0.0	0.0	0.0	0.0	20 1
3 19	ძ6.9	3.50	0.0	0.0	0.0	0.0 0.0	20 1
320	86.4	3.90	4.27	3.76	0.0	0.0	20 1
321	76.0	3.70	3.77	3.28	0.0	0.0	60 1
322	68.7	4.30	0.0	3.56	0.0	0.0	10 1
323	48.1	*5.00	4.24	4.03	3.36	0.94	30 1
324	102.3	4.20	0.0	0.0	0.0	0.0	10 1 20 1
326	73.8	4.00	0.0	0.0	0.0	0.0	20 1
327	75.7	3.40	3.38	0.0	0.0	0.83	10 1
328	75.8	3.50	3.49	0.0	0.0	0.84	10 1
329	114.7	4.10	0.0	0.0	0.0	0.0	30 1
330 331	70.9	3.50	0.0	0.0	0.0	0.0	20 1
	77.6	4.00	0.0	0.0	0.0	0.0	30 1
332 333	129.4	4.20	0.0	3.59	0.0	0.0	10 1
334	109.3	3.90	0.0	0.0	0.0	0.0	20 1
335	88.4	4.80	0.0	0.0	0.0	0.0	20 1
3.36	111.1 64.1	4.00	0.0	0.0	0.0	0.0	30 1
337	69.5	3.40	0.0	0.0	0.0	0.0	30 1
338	77.4	3.60	0.0	0.0	0.0	0.0	30 1
339	92.0	4.70 5.50	0.0	0.0	0.0	0.0	30 1
340	77.9	3.80	0.0	0.0	0.0	0.0	30 1
341	48.4	5.40	0.0	0.0	0.0	0.0	20 1
342	109.2	4.90	5.08 4.37	4.61	4.23	3.21	10 1
343	48.3	4.90	0.0	4.00	0.0	1.00	10 1
344	112.1	4.10	0.0	0.0	0.0	0.0	30 1
345	64.4	4.30	0.0	0.0	0.0	0.0	20 1
346	48.3	4.70	3.74	3.33	0.0	0.0	30 1
347	110.0	4.50	0.0	0.0	0.0	3.10	10 1
348	71.8	4.70	0.0	0.0	0.0	0.0	30 1
349	67.4	4.40	0.0	0.0	0.0 0.0	0.0	10 1
350	125.4	4.90	0.0	3.47	3.14	0.0	20 1
351	101.2	4.90	4.61	4.43	3.80	2.68	10 1
352	111.5	4.00	0.0	0.0	0.0	2.22 0.0	10 1
353	104.5	3.60	0.0	0.0	0.0	0.0	20 1
354	90.9	4.50	0.0	0.0	0.0	0.0	30 1
355	63.2	3.70	0.0	0.0	0.0	0.0	30 <b>1</b> 30 <b>1</b>
356	108.R	4.00	0.0	0.0	0.0	0.0	30 <b>1</b> 30 <b>1</b>
357	74.1	3.30	0.0	0.0	0.0	0.0	30 1
358	68.3	4.00	0.0	0.0	0.0	0.0	50 1
359	67.3	4.30	0.0	0.0	0.0	0.0	50 1
							-

EVENT NO.	DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
360	64.1	3.70	0.0	0.0	0.0	0.0	E0 1
361	108.9	5.40	0.0	0.0	0.0	0.0	50 1 50 1
362	109.0	5.10	4.98	4.56	3.99	4.72	10 1
363	74.3	3.70	0.0	0.0	0.0	0.0	20 1
365	76.3	3.80	0.0	0.0	0.0	0.0	30 1
366	106.0	4.70	0.0	0.0	0.0	0.0	
367	109.0	5.30	0.0	4.01	0.0	0.81	30 1 10 1
369	103.7	3.50	3.85	3.41	2.85	0.0	10 1
370	99.2	3.60	0.0	0.0	0.0	0.0	30 1
3 <b>71</b>	134.4	*4.50	4.04	3.93	3.49	0.69	10 1
415	95.7	4.00	0.0	0.0	0.0	0.0	20 1
416	88.4	5.50	0.0	0.0	0.0	0.0	50 1
417	74.9	3.80	0.0	0.0	0.0	0.0	20 1
418	66.8	4.40	0.0	0.0	0.0	0.0	20 1
419	88.4	*5.20	0.0	0.0	0.0	0.0	30 1
420	111.2	3.50	0.0	0.0	0.0	0.0	50 1
421	91.7	5.10	4.01	3.61	0.0	0.0	10 1
422	129.5	*4.60	0.0	0.0	0.0	0.0	20 1
423	74.8	3.60	0.0	0.0	0.0	0.0	20 1
424	77.7	4.20	0.0	0.0	0.0	0.0	30 1
425	76.6	3.40	0.0	0.0	0.0	0.0	20 1
426	120.9	4.30	0.0	0.0	0.0	0.0	20 1
427	118.5	5.60	4.92	4.63	4.28	2.06	10 1
428	74.2	3.90	0.0	0.0	0.0	0.0	20 1
429	102.6	3.90	0.0	0.0	0.0	0.0	30 1
430	99.0	3.70	0.0	0.0	0.0	0.0	20 1
431	91.4	*4.60	0.0	0.0	0.0	0.0	30 1
463 464	127.4	4.70	0.0	0.0	0.0	0.0	30 1
465	66.6	4.90	0.0	0.0	0.0	0.0	30 1
466	68.2 131.4	4.20	0.0	0.0	0.0	0.0	20 1
467	50.4	4.00	0.0	0.0	0.0	0.0	30 1
468	52.8	4.10 3.80	3.80	3.44	2.95	0.0	10 1
469	74.9	4.10	0.0	0.0	0.0	0.0	20 1
470	82.6	4.70	0.0	0.0	0.0	0.0	20 1
471	90.2	4.20	0.0 0.0	3.42	0.0	0.0	13 1
472	68.9	5.20	3.79	0.0	0.0	0.0	30 1
473	76.4	3.60	0.0	3.56 0.0	0.0	1.25	10 1
474	97.5	3.70	0.0	0.0	0.0	0.0	20 1
475	110.0	4.70	0.0	0.0	0.0 0.0	0.0	20 1
476	69.9	5.20	3.84	3.80	3.24	0.0	50 1
477	87.7	3.50	0.0	0.0	0.0	0.0	10 1
478	77.3	4.00	0.0	0.0	0.0	0.0	20 1
479	129.0	4.10	0.0	0.0	0.0	0.0	20 1
480	69.4	3.70	0.0	0.0	0.0	0.0	20 <b>1</b> 20 <b>1</b>
481	75.0	3.90	0.0	0.0	0.0	0.0	20 <b>1</b> 20 <b>1</b>
482	64.2	4.20	0.0	0.0	0.0	0.0	20 1
483	93.7	3.70	0.0	0.0	0.0	0.0	20 1
484	134.4	4.40	0.0	0.0	0.0	0.0	20 1
					380	• .,	7.1

FVFNT NC.	DISTANCE (DEGREES)	۹B	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LP RATIO	COMMENT
					r = vosac	83110	
485	47.8	3.80	0.0	0.0	0.0	0.0	20 1
486	121.7	3.90	0.0	0.0	0.0	0.0	20 1
487	104.4	4.40	0.0	0.0	0.0	0.0	20 1
488	104.3	3.90	0.0	0.0	0.0	0.0	20 1
489	104.3	3.40	0.0	0.0	0.0	0.0	20 1
490	51.9	3.90	0.0	0.0	0.0	0.0	20 1
401	88.8	3.80	0.0	0.0	0.0	0.0	20 1
49?	49.8	5.10	4.52	3.94	3.38	0.0	10 1
403	67.3	4.40	0.0	0.0	0.0	0.0	20 1
494	73.7	3.70	0.0	0.0	0.0	0.0	20 1
495	66.1	3.50	0.0	0.0	0.0	0.0	30 1
496	71.3	5.20	3.87	3.73	3.43	0.0	10 1
498	71.4	4.70	0.0	0.0	0.0	0.0	20 1
499	50.1	4.60	3.93	3.69	3.21	0.93	10 1
500	64.2	3.70	0.0	0.0	0.0	0.0	20 1
501	75.8	4.20	0.0	0.0	0.0	0.0	20 1
502	64.3	3.90	0.0	0.0	0.0	0.0	30 1
503	71.9	4.20	3.94	3.28	0.0	0.0	10 1
504	122.4	3.90	0.0	0.0	0.0	0.0	30 1
505 506	75.9	5.30	3.95	4.01	3.64	0.0	10 1
507	78.2	3.30	0.0	0.0	0.0	0.0	20 1
508	129.0	3.40	0.0	0.0	0.0	0.0	20 1
579	63.1	4.10	0.0	0.0	0.0	0.0	30 1
510	76.0	4.50	0.0	0.0	0.0	0.0	20 1
511	87.6	4.00	0.0	0.0	0.0	0.0	20 1
	99.6	3.70	0.0	0.0	0.0	0.0	20 1
512	127.2	4.00	0.0	0.0	0.0	0.0	20 1
513 514	65.1 73.4	5.00	0.0	0.0	0.0	0.0	30 1
514		4.20	2.0	0.0	0.0	0.0	20 1
517	76.6 71.9	4.30	0.0	0.0	0.0	0.0	20 1
518	102.6	3.90	0.0	0.0	0.0	0.0	20 1
521	117.6	4.30	0.0	0.0	0.0	0.0	20 1
522	73.5	5.50	0.0	0.0	0.0	0.0	30 1
523	73.6	4.70	4.91	4.69	4.29	1.00	10 1
524	127.4	3.99	0.0	0.0	0.0	0.0	20 1
525	73.6	3.60		0.0	0.0	0.0	20 1
526	78.8	3.70	0.0	0.0	0.0	0.0	20 1
527	114.9	4.40	0.0	0.0	0.0	0.0	30 1
528	79.2	4.00	0.0	0.0	0.0	0.0	20 1
529	93.5	4.80	0.0		0.0	0.0	20 1
530	129.3	4.50	0.0	0.0	0.0	0.0	20 1
531	65.4	4.30	0.0	0.0	0.0	0.0	30 1
512	109.7	4.00	0.0	0.0	0.0	0.0	20 1
533	134.4	4.47	0.0	0.0	0.0	0.0	20 1
534	71.0	5. 10	4.15	3.88	0.0	0.0	30 1
515	48.0	5.10	4.13	3.98	3.24	1.43	10 1
516	86.4	4.30	0.0	0.0	0.0		10 1
541	69.9	5.10	4.06	3.78	3.72	0.0	20 1 10 1

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/IR RATIO	COMMENT
542	93.3	4.00	0.0	0.0	0.0	0.0	30 1
543	48.0	4.90	3 72	3.86	0.0	0.76	10 1
544	66.4	3.50	0_0	0.0	0.0	0.0	30 1
546	77.6	4.80	0.0	0.0	0.0	0.0	
547	49.9	4.60	4.44	3.69	3.35	0.0	20 1
548	103.7	3.60	0.0	0.0	0.0	0.0	10 1
549	52.2	3.70	0.0	0.0	0.0	0.0	20 1
550	89.8	4.10	0.0	0.0	0.0	0.0	30 1
551	120.9	3.70	0.0	0.0	0.0		50 1
552	90.3	3.70	0.0	0.0		0.0	20 1
553	89.9	3.80	0.0	0.0	0.0 0.0	0.0	23 1
554	118.4	4.50	0.0	0.0		0.0	20 1
555	127.4	3.40	0.0		0.0	0.0	30 1
556	63.3	4.00	0.0	0.0	0.0	0.0	23 1
557	98.7	4.70	0.0	0.0	0.0	0.0	20 1
558	77.5	5.60		0.0	0.0	0.0	30 1
559	77.5	5.00	5.10	4.57	4.49	1.11	10 1
560	98.7		4.46	4.66	4.16	0.85	10 1
561		4.20	0.0	0.0	0.0	0.0	30 1
562	120.6	4.30	5.0	0.0	0.0	0.0	20 1
563	67.2	4.50	0,0	0.0	0.0	0.0	20 1
	77.2	4.00	3.86	3.22	0.0	0.0	13 1
564	121.1	3.90	0.0	0.0	0.0	0.0	30 1
565	80.8	5.30	4.31	4.08	0.0	0.0	10 1
566 567	120.5	4.50	0.0	0.0	0.0	0.0	30 1
	98.7	4.80	0.0	0.0	0.0	0.0	30 1
568	49.8	4.80	0.0	0.0	0.0	0.0	30 1
624	67.2	4.10	0.0	0.0	0.0	0.0	30 1
626	92.1	5.20	0.0	0.0	0.0	0.0	30 1
635	64.1	4.50	0.0	0.0	0.0	0.0	50 1
636	65.2	3.50	0.0	0.0	0.0	0.0	50 1
637	74.1	3.60	0.0	0.0	0.0	0.0	50 1
638	72.8	3.50	0.0	n. n	0.0	0.0	50 1
650	65.1	3.50	0.0	0.0	0.0	0.0	50 1
651	63.6	4.90	0.0	<b>0.</b> 0	4.05	0.0	13 1
652	110.3	5.70	0.0	0.0	0.0	0.0	20 1
653	72.6	5.20	4.16	3.69	0.0	4.67	10 1
654	76.9	4.50	0.0	0.0	0.0	0.0	30 1
655	67.2	4.00	3.33	3.09	2.82	0.0	10 1
656	73.6	4.80	3.39	3.23	0.0	1.37	10 1
657	66.1	4.30	0.0	0.0	$\mathbf{c} \cdot \mathbf{o}$	0.0	30 1
658	73.6	<b>*4.50</b>	0.0	0.0	0.0	0.0	30 1
659	126.6	4.00	0.0	0.0	0.0	0.0	32 1
660	67.4	4.10	3.34	2.73	0.0	0.0	13 1
661	70.9	5.20	0.0	3.81	3.41	0.0	10 1
662	86.7	4.60	0.0	0.0	0.0	0.0	32 1
663	49.6	4.20	0.0	0.0	0.0	0.0	30 1
664	69.6	3.70	0.0	0.0	0.0	0.0	30 1
665	123.4	4.00	0.0	0.0	0.0	0.0	20 1
666	71.7	3.30	0.0	0.0	0.0	0.0	20 1

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
667	71.0	3.80	0.0	0.0	0.0	0.0	22.1
668	74.1	3.80	0.0	0.0	0.0	0.0	32 1
669	68.1	3.80	0.0	0.0	0.0	0.0	30 1 23 1
696	95.7	4.40	0.0	0.0	0.0		
697	57.0	4.40	5.04	4.73	4.24	0.0	30 1
698	63.5	4.80	3.93	3.80	3. 13	0.0 0.0	10 1
699	91.8		0.0				10 1 50 1
700	90.4	6.20 4.30	0.0	0.0 0.0	0.0 0.0	0.0	
701	103.7	4.00	0.0	0.0	0.0	0.0	50 <b>1</b> 30 <b>1</b>
702	91.2	5.50	4.88	4.32	4.32	0.0	
730	127.4	3.80	0.0	0.0		0.80	10 1
731	109.3	3.90	0.0		0.0	0.0	20 1
731	65.9		3.30	0.0		0.0	23 1
733	127.4	4.40 3.70		3.41	0.0	1.35	10 1
734	130.3		0.0	0.0	0.0	0.0	23 1
734	64.3	4.30	0.0	0.0	0.0	0.0	20 1
736	64.5	4.00	0.0	2.86	3.03	0.0	16 1
737	73.8	3.70	0.0	0.0	0.0	0.0	20 1
737		4.60	0.0	0.0	0.0	0.0	23 1
730 739	64.9	3.90	0.0	0.0	0.0	0.0	25 1
739	66.9	4.00	0.0	0.0	0.0	0.0	23 1
	128.9	*4.80	0.0	0.0	0.0	0.0	30 1
742	104.5	4.00	0.0	0.0	0.0	0.0	30 1
743	85.1	4.00	4.39	3.69	3.27	0.0	10 1
744	50.0	5.70	5.71	5.45	4.82	0.27	10 1
745	49.6	4.40	0.0	0.0	0.0	0.0	30 1
746	103.5	3.60	0.0	0.0	0.0	0.0	20 1
747	122.2	4.10	4.29	4.14	3.57	0.0	16 1
748	89.5	4.00	3.82	0.0	0.0	0.0	10 1
749	87.3	4.00	0.0	0.0	0.0	0.0	30 1
750 751	85.8	4.90	0.0	0.0	0.0	0.0	30 1
75 1 75 2	128.6	4.30	3.97	3.39	0.0	0.0	13 1
752 753	129.0	5.40	0.0	0.0	0.0	0.0	10 1
753 754	108.9	4.70	0.0	0.0	0.0	0.0	30 1
754	103.4	3.70	0.0	0.0	0.0	0.0	20 1
755 756	100.9	5.20	3.52	3.36	0.0	3.24	13 1
756 757	73.2	3.40	0.0	0.0	0.0	0.0	20 1
757	70.9	3.90	0.0	0.0	0.0	0.0	20 1
758 750	78.8	5.10	3.99	3.87	0.0	1.52	10 1
759 760	128.6	4.00	0.0	0.0	0.0	0.0	20 1
760	101.5	5.60	0.0	0.0	0.0	0.0	23 1
761	73.0	5.20	3.62	3.44	0.0	0.0	10 1
762	134.5	4.90	4.08	3.72	3.52	0.0	13 1
763	102.5	3.90	0.0	0.0	0.0	0.0	23 1
764	74.6	4.70	3.48	2.75	0.0	0.0	13 1
765	124.2	4.80	0.0	0.0	0.0	0.0	50 1
766	76.7	3.60	0.0	0.0	0.0	0.0	50 1
767	125.3	4.40	0.0	0.0	0.0	0.0	50 1
768	89.8	3.60	0.0	0.0	0.0	0.0	50 1
769	89.3	4.10	0.0	0.0	0.0	0.0	50 1

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
770	93.4	3.60	0.0	0.0	0.0	0.0	60.4
771	134.5	<b>*4.40</b>	0.0	0.0	0.0	0.0	50 1
772	74.0	3.90	0.0	0.0	0.0		50 1
809	66.2	3.60	0.0	0.0	0.0	0.0	50 1
810	66.2	3.60	0.0	0.0		0.0	50 1
811	64.6	3.60	0.0	0.0	0.0	0.0	20 1
812	64.9	4.30	0.0	0.0	0.0	0.0	30 1
813	64.8	4.80	4.00	3.66	0.0	0.0	30 1
814	65.1	4.10	3.42	3.02	3.40	0.0	10 1
8 1 5	74.1	4.70	0.0	0.0	0.0	0.0	10 1
816	128.9	3.90	0.0	0.0	0.0	0.0	20 1
817	67.1	3.60	0.0		0.0	0.0	20 1
818	64.3	5.70	0.0	0.0	0.0	0.0	20 1
819	91.2	3.60	0.0	4.38	4.03	1. 10	10 1
820	127.1	*4.20	0.0	0.0	0.0	0.0	20 1
821	66.2	4.60		0.0	0.0	0.0	20 1
822	65.2	4.10	0.0	0.0	0.0	0.0	20 1
823	130.3	*4.30	0.0	0.0	0.0	0.0	20 1 ,
824	64.1	3.40	0.0	0.0	0.0	0.0	20 1
825	65.0	4.70	0.0	0.0	0.0	0.0	20 1
826	124.8	4.70	4.22	3.66	0.0	2.63	10 1
827	107.9		0.0	3.51	0.0	0.0	13 1
828	64.8	4.40	0.0	0.0	0.0	0.0	20 1
829	64.8	5.70	5.33	5.28	5.02	2.55	10 1
830	66.2	4.80	0.0	0.0	0.0	0.0	30 1
831	65.2	4.30	0.0	0.0	0.0	0.0	20 1
832	64.9	3.80	0.0	0.0	0.0	0.0	20 1
833	65.1	4.70	0.0	0.0	0.0	0.0	20 1
834	64.8	4.10	0.0	0.0	0.0	0.0	20 1
835		4.80	0.0	0.0	0.0	0.0	20 1
836	64.1 64.8	3.70	0.0	0.0	0.0	0.0	20 1
837		4.60	0.0	0.0	• •	0.0	50 1
838	64.7	4.90	3.76	3.16	0.0	4.02	10 1
839	92.8	3.40	0.0	0.0	0.0	0.0	20 1
840	108.1	4.00	0.0	0.0	0.0	0.0	20 1
841	63.2	3.80	0.0	0.0	0.0	0.0	30 1
842	66.2 125.6	3.70	0.0	0.0	0.0	0.0	20 1
843		4.70	0.0	0.0	0.0	0.0	20 1
844	70.2	3.80	0.0	0.0	0.0	0.0	20 1
845	124.3	4.60	4.31	4.19	3.21	0.21	70 1
846	91.5	4.30	0.0	0.0	0.0	0.0	20 1
	71.0	4.10	0.0	0.0	0.0	0.0	30 1
847	88.0	3.70	0.0	0.0	0.0	0.0	20 1
848	75.3	4.20	0.0	0.0	0.0	0.0	20 1
849	133.6	3.70	0.0	0.0	0.0	0.0	30 1
850	77.6	4.10	0.0	0.0	0.0	0.0	20 1
851	76.6	4.10	0.0	0.0	0.0	0.0	20 1
852	69.6	4.10	0.0	3.44	0.0	0.0	16 1
853	67.3	3.90	0.0	0.0	0.0	0.0	20 1
854	80.6	3.80	0.0	0.0	0.0	0.0	50 1

FVENT	DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
855	89.3	4.00	0.0	0.0	0.0	0.0	20 1
856	124.6	3.70	0.0	0.0	0.0	0.0	50 1
857	74.6	4.80	0.0	0.0	0.0	0.0	20 1
858	65.7	4.70	3.56	3.44	2.88	0.0	10 1
859	74.0	5.70	5.04	5.19	4.62	0.90	10 1
860	74.3	3.50	0.0	0.0	0.0	0.0	30 1
861	88.8	3.60	0.0	0.0	0.0	0.0	50 1
862	102.4	4.60	0.0	0.0	0.0	0.0	20 1
863	126.5	3.60	0.0	0.0	0.0	0.0	20 1
864	66.2	4.00	0.0	0.0	0.0	0.0	20 1
865	92.3	4.50	0.0	0.0	0.0	0.0	20 1
866	129.7	3.50	0.0	0.0	0.0	0.0	20 1
867	69.7	4.10	0.0	0.0	0.0	0.0	20 1
868	77.4	4.30	0.0	0.0	0.0	0.0	50 1
969	76.4	4.30	0.0	0.0	0.0	0.0	20 1
870	77.3	4.10	0.0	0.0	0.0	0.0	50 1
871	64.1	3.80	0.0	0.0	0.0	0.0	50 1
872	107.2	3.80	0.0	0.0	0.0	0.0	50 1
873	77.5	4.50	0.0	0.0	0.0	0.0	50 1
874	125.8	4.40	0.0	0.0	0.0	0.0	50 1
875	77.4	4.90	0.0	0.0	0.0	0.0	50 1
961	73.7	4.30	0.0	0.0	0.0	0.0	20 1
962	63.1	4.10	0.0	0.0	0.0	0.0	20 1
963	99.6	4.00	0.0	0.0	0.0	0.0	20 1
964	66.4	3.80	0.0	0.0	0.0	$0 \cdot 0$	20 1
965	80.6	4.80	0.0	0.0	0.0	0.0	20 1
966	102.5	5.20	0.0	0.0	0.0	0.0	20 1
967	77.0	3.80	0.0	0.0	0.0	0.0	20 1
968	127.0	4.10	0.0	0.0	0.0	0.0	20 1
969	64.9	4.30	0.0	0.0	0.0	0.0	20 1
970	77.6	3.50	0.0	0.0	0.0	0.0	20 1
971	129.7	3.50	0.0	0.0	0.0	0.0	20 1
972	123.1	4.10	0.0	0.0	0.0	0.0	20 1
973	77.2	4.20	0.0	0.0	0.0	0.0	20 1
974	70.0	5.00	0.0	3.49	0.0	0.0	10 1
975	65.1	3.60	0.0	0.0	0.0	0.0	20 1
976	72.1	3.80	0.0	0.0	0.0	0.0	20 1
977	92.7	3.50	0.0	0.0	0.0	0.0	20 1
978	74.8	4.20	0.0	3.23	2.97	0.0	10 1
979	88.3	3.80 *#.40	0.0	0.0 0.0	0.0	0.0	20 1 20 1
9 A 1	130.2 76.9	4.00	0.0	0.0	0.0	0.0	
982	64.1	3.40	0.0	0.0	0.0	0.0	
983	122.7	4.20	0.0	0.0	0.0	0.0	20 1 20 1
984	71.2	6.30	0.0	0.0	0.0	0.0	30 1
985	71.1	4.90	0.0	0.0	0.0	0.0	50 1
986	70.8	5,30	0.0	0.0	0.0	0.0	30 1
98 <b>7</b>	70.8	5.50	0.0	0.0	0.0	0.0	30 1

FVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
989	72.0	3.80	7.0	0.0	0.0	0.0	50 1
990	92.7	4.20	0.0	0.0	0.0	0.0	30 1
991	70.7	4.00	0.0	0.0	0.0	0.0	
992	71.8	4.30	0.0	0.0	0.0	0.0	
993	71.8	4.10	0.0	0.0	0.0	0.0	50 1
994	70.6	3.60	0.0	0.0	0.0	0.0	30 1
995	71.8	4.00	0.0	0.0	0.0		30 1
996	70.7	3.50	0.0	0.0	0.0	0.0	30 1
997	70.9	4.90	0.0	0.0	0.0	0.0	30 1
998	71.6	4.20	0.0	0.0		0.0	20 1
999	70.7	3.70	0.0	0.0	0.0	0.0	20 1
1000	70.8	5.20	0.0		0.0	0.0	20 1
1001	70.9	4.10	0.0	0.0	0.0	0.0	20 1
1002	70.9	3.90		0.0	0.0	0.0	20 1
1003	71.5	3.90	0.0	0.0	0.0	0.0	50 1
1004	71.7		0.0	0.0	0.0	0.0	20 1
1005	71.7	4.50	0.0	0.0	0.0	0.0	20 1
1006	70.9	3. 90	0.0	0.0	0.0	0.0	20 1
1007		3.90	0.0	0.0	0.0	0.0	20 1
	71.8	4.60	0.0	0.0	0.0	0.0	50 1
1008	70.6	5.50	3.87	3.38	0.0	0.0	10 1
1009	70.9	4.20	3.20	0.0	0.0	0.0	20 1
1010	70.7	4.00	3.20	0.0	0.0	0.0	20 1
1011	71.8	3.90	3.29	0.0	0.0	0.0	20 1
1012	70.6	4.50	3.31	0.0	0.0	0.0	20 1
1013	71.8	4.40	0.0	0.0	0.0	0.0	30 1
1014	72.8	3.90	3.21	0.0	0.0	0.0	20 1
1015	70.5	3.40	0.0	0.0	0.0	0.0	30 1
10 16	71.7	4.60	4.42	4.05	0.0	0.73	10 1
1017	77.0	4.20	3.27	0.0	0.0	0.0	20 1
10 18	69.5	4.70	3.06	0.0	0.0	0.0	20 1
1019	71.7	4.00	0.0	0.0	0.0	0.0	30 1
1020	71.R	3.80	0.0	0.0	0.0	o.o	30 1
1021	126.6	3.90	3.63	0.0	0.0	0.0	20 1
1022	71.7	4.10	3.32	0.0	0.0	0.0	20 1
1023	71.8	3.70	3.49	0.0	0.0	0.0	20 1
1024	70.9	4.10	3.58	0.0	0.0	0.0	20 1
1025	71.8	4.20	3.22	0.0	0.0	0.0	20 1
1026	90.3	3.70	3.42	n.n	0.0	0.0	
1027	71.8	3.50	0.0	0.0	0.0	0.0	20 1
1028	124.5	3.60	0.0	0.0	0.0	0.0	50 1
1029	71.0	5.50	0.0	0.0	0.0		50 1
1030	104.0	4.60	3.44	0.0	0.0	0.0	10 1
1031	66.2	3.50	3.15	0.0		0.0	20 1
1032	71.8	4.60	0.0	0.0	0.0	0.0	20 1
1033	86.9	4.50	0.0	0.0	0.0	0.0	50 1
1034	87.4	3.70	0.0		0.0	0.0	50 1
1035	71.4	4.60	3.54	0.0	0.0	0.0	50 1
1036	71.7	4.40	3.83	0.0	0.0	0.0	20 1
1037	72.0	3.70	3.42	0.0	0.0	0.0	20 1
	7 L • ()	1. / 1.	3.44	0.0	0.0	0.0	20 1

EVENT	DISTANCE	MB	MS	MS	MS	LQ/LR	CONNENT
NO.	(DEGREES)		T=20SEC	T=30SEC	T=40SEC	RATIO	
1038	77.6	3.90	3.86	0.0	0.0	0.0	20 1
1039	76.0	6.10	5.50	5.32	5.17	0.30	10 1
1040	68.5	4.20	3.22	0.0	0.0	0.0	20 1
1041	71.8	4.00	3.43	0.0	0.0	0.0	20 1
1042	130.3	3.70	3.49	0.0	0.0	0.0	20 1
1043	71.8	3.90	3.28	0.0	0.0	0.0	20 1
1044	88.7	3.40	0.0	0.0	0.0	0.0	50 1
1045	77.4	3.70	0.0	0.0	0.0	0.0	50 1
1046	70.9	3.60	3.60	0.0	0.0	0.0	20 1
1047	89.0	3.60	0.0	0.0	0.0	0.0	30 1
1048	127.6	4.00	3.65	0.0	0.0	0.0	20 1
1049	89.3	3.60	3.39	0.0	0.0	0.0	20 1
1050	70.6	5.00	3.37	0.0	0.0	0.0	20 1
1051	85.4	3.60	3.42	0.0	0.0	0.0	20 1
1052	130.0	*3.60	3.66	0.0	0.0	0.0	20 1
1053	90.3	5.00	3.51	0.0	0.0	0.0	20 1
1054	64.1	4.10	3.50	0.0	0.0	0.0	20 1
1055	105.3	3.60	3.78	0.0	0.0	0.0	20 1
1056	70.7	3.50	3.58	0.0	0.0	0.0	20 1
1057	75.5	3.70	3.58	0.0	0.0	0.0	20 1
1058	70.7	3.50	0.0	0.0	0.0	0.0	30 1
1059	63.1	3.90	0.0	0.0	0.0	0.0	30 1
1060	71.8	4.20	3.98	0.0	0.0	0.0	20 1
1061	71.8	4.50	3.47	0.0	0.0	0.0	20 1
1062	72.0	3.80	3.37	0.0	0.0	0.0	20 1
1063	91.9	4.00	0.0	0.0	0.0	0.0	30 1
1064	81.1	3.80	4.71	0.0	0.0	0.0	20 1
1065	70.6	4.60	3.65	0.0	0.0	0.0	20 1
1066	72.0	4.00	0.0	0.0	0.0	0.0	30 1
1067	90.5	3.50	3.60	0.0	0.0	0.0	20 1
1068	69.5	4.20	3.75	0.0	0.0	0.0	20 1
1069	69.4	3.80	3.47	0.0	0.0	0.0	20 1
1070	70.6	4.40	3.39	0.0	0.0	0.0	20 1
1071	71.4	4.70	0.0	0.0	0.0	0.0	
1072	129.6	3.10	3.82	0.0	0.0	0.0	30 1 20 1
1073	128.2	3.70	0.0	0.0	0.0	0.0	30 1
1074	69.5	4.40	3.49	0.0	0.0	0.0	20 1
1075	69.6	3.90	3.30	0.0	0.0	0.0	
1076	104.3	3.50	0.0	0.0	0.0	0.0	20 1 30 1
1077	71.8	4.10	3.32	0.0	0.0	0.0	20 1
1078	64.1	4.10	3.25	0.0	0.0	0.0	
1079	68.7	3.60	0.0	0.0	0.0	0.0	
1080	48.4	4.80	3.89	3.91	3.29	1.71	
1081	122.7	4.40	4.01	0.0	0.0	0.0	10 1
1082	63.7	4.30	3.68	0.0	0.0		20 1
1083	70.8	5.70	4.84	4.65	4.44	0.0	20 1
1084	76.6	4.50	0.0	0.0	0.0	0.27	10 1
1085	71.5	6.10	5.45	5.56		0.0	30 1
1086	129.3	4.70	4.72	0.0	5.35	0.13	10 1
1000	1676.3	4.70	4.16	0.0	0.0	0.0	20 1

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EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1087	127.4	4.00	4.12	0 0			20.
1088	69.9	3.90	0.0	0.0	0.0	0.0	20 1
1089	67.2	3.70	3.83		0.0	0.0	50 1
1090	73.1			0.0	0.0	0.0	20 1
1090		4.00	3.83	0.0	0.0	0.0	20 1
	70.4	3.70	3.65	3.42	0.0	0.0	60 1
1092	87.1	4.20	0.0	0.0	0.0	0.0	50 1
1093	66.6	4.30	3.49	0.0	0.0	0.0	20 1
1094	70.9	3.90	0.0	0.0	0.0	0.0	30 1
1095	68.2	4.10	3.51	0.0	0.0	0.0	20 1
1096	75.0	3.50	3.99	0.0	0.0	0.0	20 1
1097	104.5	3.60	4.09	0.0	0.0	0.0	20 1
1098	123.2	3.80	4.06	0.0	0.0	0.0	20 1
1099	77.7	3.60	3.80	0.0	0.0	0.0	20 1
1100	101.3	*4.40	3.66	0.0	0.0	0.0	20 1
1101	76.4	3.70	0.0	0.0	0.0	0.0	30 1
1102	71.8	3.70	3.53	0.0	0.0	0.0	20 1
1103	105.6	3.80	3.64	0.0	0.0	0.0	20 1
1104	69.5	4.50	3.49	0.0	0.0	0.0	20 1
1105	104.3	3.60	3.88	0.0	0.0	0.0	20 1
1106	71.5	5.20	3.47	0.0	0.0	0.0	20 1
1107	122.4	4.30	3.43	0.0	0.0	0.0	20 1
1108	127.7	4.20	3.78	0.0	0.0	0.0	20 1
1109	127.4	3.90	3.80	0.0	0.0	0.0	20 1
1110	76.4	3.50	3.53	0.0	0.0	0.0	20 1
1111	105.3	4.00	3.77	0.0	0.0	0.0	20 1
1112	74.8	5.20	3.84	3.71	3.57	1.59	10 1
1113	68.3	4.00	3.45	0.0	0.0	0.0	20 1
1114	74.1	4.20	0.0	0.0	0.0	0.0	50 1
1115	64.1	4.30	3.52	0.0	0.0	0.0	20 1
1116	64.1	3.80	3.42	0.0	0.0	0.0	20 1
1117	76.2	4.70	3.50	0.0	0.0	0.0	20 1
1118	76.3	4.60	3.45	0.0	0.0	0.0	20 1
1119	129.2	4.00	3.76	0.0	0.0	0.0	20 1
1120	71.7	4.40	3.59	0.0	0.0	0.0	20 1
1121	71.8	4.50	0.0	0.0	0.0	0.0	30 1
1122	66.3	3.90	0.0	0.0	0.0		30 1
1123	72.9	4.80	3.57	3.27	2.79	0.0	10 1
1124	77.2	3.70	3.50	0.0	0.0	0.0	20 1
1125	70.9	<b>*5.30</b>	4.44	4.33	4.17	0.0	10 1
1126	65.1	3.40	3.29	0.0			
1127	71.8	4.70	0.0		0.0	0.0	20 1
1128				0.0	0.0	0.0	30 1
1130	130.1 49.6	3.50 3.90	0.0	0.0	0.0	0.0	30 1
			0.0	0.0	0.0	0.0	30 1
1131	46.0	4.80	4.02	4.29	0.0	0.0	10 1
1132	49.0	5.50	5.55	5.49	5.27	0.34	10 1
1133	72.8	4.10	4.02	0.0	0.0	0.0	20 1
1134	76.3	3.60	3.51	0.0	0.0	0.0	20 1
1135	88.7	3.80	3.61	0.0	0.0	0.0	20 1
1136	74.1	3.90	0.0	0.0	0.0	0.0	30 1

EVENT	DISTANCE (DEGREES)	MB	MS T=205EC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
1137	125.0	3.80	0.0	0.0	0.0	0.0	30 1
1138	66.1	4.00	3.35	0.0	0.0	0.0	20 1
1139	129.6	4.10	0.0	0.0	0.0	0.0	30 1
1140	71.8	4.10	3.52	0.0	0.0	0.0	20 1
1141	102.5	5.20	3.99	3.68	0.0	1.03	10 1
1142	65.1	4.00	3.49	0.0	0.0	0.0	20 1
1143	48.6	5.30	5.25	5.20	4.97	0.36	10 1
1144	49.1	4.30	0.0	0.0	0.0	0.0	30 1
1145	49.3	4.40	3.24	3.17	0.0	0.0	10 1
1146	81.8	3.80	3.39	0.0	0.0	0.0	20 1
1148	99.2	3.60	3.70	0.0	0.0	0.0	20 1
1149	67.3	4.60	3.38	0.0	0.0	0.0	20 1
1150	82.8	3.90	3.42	0.0	0.0	0.0	20 1
1151	70.9	4.80	3.22	3.36	0.0	0.0	60 1
1152	76.2	4.70	4.71	3.99	0.0	0.0	10 1
1153	91.9	3.80	4.06	0.0	0.0	0.0	20 1
1154	93.3	3.80	3.98	0.0	0.0	0.0	20 1
1155	92.6	4.40	0.0	0.0	0.0	0.0	20 1
1156	92.1	3.80	3.19	0.0	0.0	0.0	20 1
1157	42.H	3.70	3.78	0.0	0.0	0.0	20 1
1158	66.1	5.00	0.0	0.0	0.0	0.0	10 1
1159	104.5	3.80	4.62	0.0	0.0	0.0	20 1
1160	92.8	4.00	3.93	3.67	0.0	0.0	60 1
1161	81.5	4.30	3.57	0.0	0.0	0.0	20 1
1162	64.5	4.20	3.65	0.0	0.0	0.0	20 1
1163	55.1	3.80	3.88	3.46	0.0	0.75	60 1
1164	78.5	4.80	0.0	0.0	0.0	0.0	50 1
1165	64.3	4.30	0.0	0.0	0.0	0.0	20 1
1166	63.5	5.20	4.23	3.85	3.56	1.01	10 1
1167	99.3	3.79	0.0	0.0	0.0	0.0	30 1
1168	63.4	5.30	0.0	0.0	0.0	0.0	50 1
1169	63.1	3.60	3.39	0.0	0.0	0.0	20 1
1170	63.7	4.10	3.18	0.0	0.0	0.0	20 1
1171	104.9	4.00	3.52	0.0	0.0	0.0	20 1
1172	63.7	5.40	3.36	2.89	0.0	7.63	10 1
1173	64.1	3.90	0.0	0.0	0.0	0.0	30 1
1174	63. R	4.70	0.0	0.0	0.0	0.0	30 1
1175	63.6	4.10	0.0	0.0	0.0	0.0	30 1
1176	63.6	4.50	4.57	0.0	0.0	0.0	20 1
1177	63.7	4.20	0.0	0.0	0.0	0.0	50 1
1178	63.3	4.60	0.0	0.0	0.0	0.0	50 1
1185	63.9	4.20	0.0	0.0	0.0.	0.0	50 1
1203	65.1	3.40	4.76	0.0	0.0	0.0	20 1
1204	67.4	3.70	3.79	0.0	0.0	0.0	20 1
1205	102.4	4.30	3.60	0.0	0.0	0.0	20 1
1206	86.4	3.90	0.0	0.0	0.0	0.0	30 1
1207	70.9 63.7	3.60	4.04	0.0	0.0	0.0	20 1
1208 1209		4.10	4.12	0.0	0.0	0.0	20 1
1214	63.1	3.70	3.44	0.0	0.0	0.0	20 1

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EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
1211	88.5	3.80	3.82	0.0	0.0	0.0	20 1
1212	73.0	4.30	3.37	0.0	0.0	0.0	20 1
1213	65.2	3.70	3.48	0.0	0.0	0.0	20 1
1214	72.9	3.40	0.0	0.0	0.0	0.0	30 1
1215	88.9	3.60	0.0	0.0	0.0	0.0	20 1
1216	74.7	3.80	3.44	0.0	0.0	0.0	20 1
1217	63.1	3.80	3.44	0.0	0.0	0.0	20 1
1218	71.8	4.20	0.0	0.0	0.0	0.0	30 1
1219	89.0	3.70	3.56	0.0	0.0	0.0	20 1
1220	78.3	3.90	3.53	0.0	0.0	0.0	20 1
1221	72.0	3.80	3.62	0.0	0.0	0.0	20 1
1222	65.1	3.70	3.54	0.0	0.0	0.0	20 1
1223	74.3	5.10	3.69	3.52	0.0	1.97	10 1
1224	89.0	3.80	0.0	0.0	0.0	0.0	30 1
1225	104.5	3.60	4.13	0.0	0.0	0.0	20 1
1226	74.5	3.70	3.56	0.0	0.0	0.0	20 1
1227	88.6	4.70	0.0	0.0	0.0	0.0	30 1
1228	A9.3	3.70	0.0	0.0	0.0	0.0	30 1
1229	71.9	4.10	0.0	0.0	0.9	0.0	30 1
1230	65.1	3.50	3.54	0.0	0.0	0.0	20 1
1231	91.ĸ	5.10	0.0	0.0	0.0	0.0	50 1
1232	71.6	5.60	5.07	4.82	0.0	0.43	10 1
1233	65.1	3.20	3.33	0.0	0.0	0.0	20 1
1234	78.7	3.40	3.19	0.0	0.0	0.0	20 1
1235	65.1	3.60	0.0	0.0	0.0	0.0	20 1
1236	92.4	5.40	4.03	0.0	3.31	0.68	40 1
1237	63.1	4.20	0.0	0.0	0.0	0.0	20 1
1238	84.2	3.40	0.0	0.0	0.0	0.0	20 1
1239	101.7	4.40	0.0	0.0	0.0	0.0	50 1
1240	89.3	4.00	3.30	0.0	0.0	0.0	20 1
1241	86.1	3.40	3.04	0.0	0.0	0.0	20 1
1242	65.1	4.00	3.01	0.0	0.0	0.0	20 1
1243	91.2	4.20	0.0	0.0	0.0	0.0	30 1
1244	66.1	3.50	3.58	0.0	0.0	0.0	20 1
1245	77.2	3.70	0.0	0.0	0.0	0.0	30 1
1246	70.4	3.60	3.52	0.0	0.0	0.0	20 1
1247	75.5	4.00	0.0	0.0	0.0	0.0	20 1
1248	71.A	3.90	0.0	0.0	0.0	0.0	30 1
1249	66.1	4.00	5.38	0.0	0.0	0.0	20 1
1250	69.5	4.10	3.70	0.0	0.0	0.0	20 1
1251	75.0	3.90	3.36	0.0	0.0	0.0	20 1
1252	70.9	3.40	4.60	0.0	0.0	0.0	20 1
1253	63.1	3.80	4.23	0.0	0.0	0.0	20 1
1254	99.6	4.60	3.84	0.0	0.0	0.0	20 1
1255	77.1	3.60	3.63	0.0	0.0	0.0	20 1
1256	77.4	3.30	3.56	0.0	0.0	0.0	20 1
1258	63.1	3.90	3.51	0.0	0.0	0.0	20 1
1259	68.6	4.00	3.75	0.0	0.0	0.0	20 1
1260	78.0	4.80	3.90	3.65	3.37	0.31	60 1

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EVENT NO.	DISTANCE (DEGREES)	MP	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1261	78.2	3.50	0.0	0.0	0.0	0.0	30 1
1262	77.1	3.70	3.43	0.0	0.0	0.0	20 1
1267	91.8	6.30	0.0	0.0	0.0	0.0	20 1
1268	95.7	5.30	0.0	0.0	0.0	0.0	20 1
1270	109.5	6.80	0.0	4.50	4.28	1.11	10 1
1280	91.7	6.00	0.0	0.0	0.0	0.0	50 1

APPENDIX II-D

BASIC DATA FOR

CHIANG MAI, THAILAND (CHG)

EVENT	DISTANCE	MB	MS	MS	MS	LQ/LR	COMMENT
NO.	(DEGREES)		T=20SEC	T=305EC	T=40SEC	RATIO	
1	56.5	4.10	3.85	3.55	2.81	2.90	10 2
2	54.7	4.60	2.0	0.0	0.0	0.0	20 2
3	54.9	4.00	0.0	0.0	0.0	0.0	20 2
4	47.3	4.00	0.0	0.0	0.0	0.0	
5	69.5	4.20	0.0	0.0	0.0	0.0	20 2 20 2
6	26.1	5.20	4.23	3.32	3,05	4.47	20 2 10 2
7	57.1	4.80	3.84	0.0	0,0	0.43	
8	57.0	4.50	0.0	0.0	0 0	0.0	10 2 30 2
9	46.2	3.40	0.0	0.0	0.0	0.0	50 2
10	59.0	4.30	0.0	0.0	0.0	0.0	50 2
11	21.8	4.80	0.0	0.0	0.0	0.0	20 2
12	60.5	4.40	0.0	0.0	0.0	0.0	20 2
13	22.0	*4.60	4.60	3.27	2.98	1.34	10 2
14	32.3	3.90	4.23	4.38	3.40	0.78	10 2
15	41.3	3.80	0.0	0.0	0.0	0.0	20 2
16	47.3	4.50	0.0	0.0	0.0	0.0	20 2
17	71.4	4.00	0.0	0.0	0.0	0.0	20 2
18	29.5	4.50	0.0	0.0	0.0	0.0	20 2
19	63.7	4.00	3.89	3.39	0.0	1.50	10 2
20	59.0	3.90	0.0	0.0	0.0	0.0	20 2
21	31.6	4.70	3.51	0.0	0.0	3.98	10 2
22	23.2	4.70	3.65	3.18	0.0	4.72	10 2
23	45.2	5.20	3.14	0.0	0.0	3.97	10 2
24	29.8	3.90	0.0	0.0	0.0	0.0	20 2
25	51.3	4.20	2.81	0.0	0.0	0.0	60 2
26	19.0	4.70	5.46	3,93	0.0	1.24	10 2
27	19.2	4.60	4.76	4.09	4.11	1.05	10 2
28	60.6	3.60	0.0	0 0	0.0	0.0	30 2
29	60.4	4.30	3.56	0.0	0.0	2.86	10 2
3.0	48.5	3.80	0.0	0.0	0.0	0.0	20 2
3 1	20.3	5.00	4.16	4.16	3.78	1.00	10 2
32	60.4	4.40	0.0	0.0	0.0	0.0	20 2
3 3	62.8	3.90	0.0	0.0	0.0	0.0	20 2
34	47.6		3.93	0.0	0.0	0.0	10 2
35	62.2		0.0	2.65	0.0	0.0	10 2
36	67.7			4.14	3.93	2.32	10 2
37	60.5		4.10	0.0	3.58	0.60	10 2
38	60.3			0.0	3.56	0.98	10 2
39	54.4	5.30	5.05	4.68	4.17	6.40	10 2
40	66.0	3.90	3.43	0.0	0.0	5.99	30 2
41	48.4	5.10	0.0	3.59	2.90	2.44	10 2
42	54.0	3.90	0.0		0.0	0.0	20 2
43	41.9	4.70	3.19	0.0	0.0	5.06	10 2
14.4	27.5	5.40	0.0	0.0	0.0	0.0	30 2
11 5	26.3	4.60	0.0		0.0	0.0	30 2
116		3.80	0.0	0.0	0.0	0.0	20 2
47	60.1	3.90	0.0	0.0	0.0	0.0	20 2
48	65.3	4.10	0.0		0.0	0.0	20 2
49	48.8	4.80	0.0	0.0	0.0	0.0	20 2

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SFC	LO/LR RATIO	COMMENT
50 .	47.9	4.90	3.89	0.0	2.95	0.0	10 2
51	77.6	4.10	0.0	0.0	0.0	0.0	20 2
52	64.6	4.80	0.0	0.0	0.0	0.0	20 2
53	51.1	3.80	0.0	0.0	0.0	0.0	20 2
54	52.2	4.20	0.0	0.0	0.0	0.0	20 2
55	62.3	4.40	0.0	0.0	0.0	0.0	20 2
56	56.4	4.20	0.0	0.0	0.0	0.0	20 2
5, 7	59.8	4.00	0.0	0.0	0.0	0.0	30 2
58	56.3	4.00	0.0	0.0	0.0	0.0	30 2
59	58.5	4.60	0.0	3.67	0.0	1.33	10 2
60	74.0	*4.20	0.0	0.0	0.0	0.0	20 2
61	22.0	4.80	4.03	0.0	3.20	0.61	10 2
62	22,2	4.60	3.96	3.91	0.0	0.57	10 2
6.3	74.0	*3.70	0.0	0.0	0.0	0.0	50 2
6.5	61.0	3.80	0.0	0.0	0.0	0.0	30 2
66	54.4	4.10	0.0	0.0	0.0	0.0	20 2
67	44.7	3.20	0.0	0.0	0.0	0.0	20 2
68	54.4	4.00	3.18	0.0	0.0	4.01	10 2
69	54.4	4.80	0.0	0.0	0.0	0.0	20 2
70	60.3	3.80	0.0	0.0	0.0	0.0	20 2
71	25.6	3.80	0.0	2.54	0.0	4.17	10 2
72	26.7	4.40	0.0	0.0	0.0	0.0	20 2
73	31.0	<b>*4.10</b>	4.17	2.80	0.0	1.69	10 2
74	49.7	4.00	0.0	0.0	0.0	0.0	30 2
<b>7</b> 5	26.7	4.50	0.0	0.0	0.0	0.0	20 2
76	30.0	4.40	0.0	0.0	0.0	0.0	30 2
77	40.4	4.00	0.0	0.0	0.0	0.0	20 2
<b>7</b> 8	55.4	3.80	0.0	0.0	0.0	0.0	20 2
79	27.9	4.40	0.0	0.0	0.0	0.0	20 2
80	35.1	3.90	0.0	0.0	0.0	0.0	20 2
8.3	57.2	3.60	0.0	0.0	0.0	0.0	20 2
84	59.5	3.70	0.0	0.0	0.0	0.0	20 2
85	47.7	3.60	0.0	0.0	0.0	0.0	20 2
87	69.0	4.60	3.40	2.52	0.0-	1.55	10 2
88	48.2	5.10	0.0	3.93	0.0	0.0	10 2
89	5.6	4.50	3.52	3.07		0.0	10 2
90	74.1	<b>*4.50</b>	4.68	4.57	0.0	1.41	10 2
91	35.9	4.20	0.0	0.0	0.0	0.0	20 2
92	74.1	4.80	3.33	0.0	0.0	1.54	10 2
93	53.2	4.80	0.0	0.0		0.0	20 2
94	74.1	4.40	3.27	3.27		1.07	10 2
95	17.4	5.20	3.87	3.64	0.0	0.96	10 2
96	46.1	4.50	3.02	2.88	0.0	0.78	10 2
97	74.1	*4.10	3.24	3.10	0.0	1.87	10 2
98	74.0	*4.30	0.0	0.0	0.0	0.0	30 2
99	74.1	*4.10	0.0	0.0	(1.0	0.0	20 2
100	73.9	3.60	0.0		0.0	0.0	30 2
101	74.1	<b>*4.30</b>	0.0	0.0	0.0	0.0	30 2
102	73.9	*3.70	0.0	0.0	0.0	0.0	30 2

EVENT	DISTANCE	MB	MS	MS	MS	LQ/LR	COMMENT
NO.	(DEGREES)		T=20SEC	T=30SEC	T=40SEC	RATIO	COMPLAT
103	73.9	*4.00	0.0	0.0	0.0	0 0	20.0
104	74.0	*4.30	3.30	2.98	0.0	0.0	30 2
105	74.0	*4.20	3.43	3.13	0.0	2.12	10 2
106	74.1	*4.40	3.29	3.27	0.0	2.39 1.99	10 2
107	13.7	4.10	0.0	0.0	0.0		10 2
108	26.9	4.70	00	0.0	0.0	0.0	20 2
109	31.4	4.30	0.0	0.0	0.0	0.0 0.0	30 2
110	74.1	*3.80	0.0	0.0	0.0	0.0	20 2
111	75.3	4.80	0.0	0.0	0.0	0.0	30 2
112	21.8	5.70	4.42	0.0	4.19	3.52	20 2
113	74.1	*4.30	0.0	0.0	0.0	0.0	10 2
114	22.4	4.80	3.93	3.61	3.56	1.41	30 2
115	44.9	4,30	0.0	0.0	0.0	0.0	10 2
116	35.1	5.50	0.0	0.0	0.0	0.0	20 2
117	44.8	4.50	3.72	3.31	0.0	1.81	20 2
1 18	44.8	3.90	0.0	0.0	0.0	0.0	10 2
119	44.8	4.10	0.0	0.0	0.0	0.0	30 2
120	28.1	4.90	0.0	0.0	0.0	0.0	50 2
121	14.9	4.30	2.63	2.42	0.0	0.0	30 2
122	61.2	3.90	0.0	0.0	0.0	0.0	10 2
123	60.0	4.60	4.04	0.0	3.30	0.76	30 2
145	48.1	4.80	0.0	0.0	0.0	0.0	10 2
146	48.6	4.70	0.0	0.0	0.0	0.0	30 2
147	48.1	4.90	3.11	2.49	0.0	0.0	30 2
148	49.6	3.70	0.0	0.0	0.0	0.0	10 2
149	68.2	3.70	0.0	0.0	0.0	0.0	20 2
150	31.8	3.80	0.0	0.0	0.0	0.0	20 2
151	27.9	4.30	0.0	0.0	0.0	0.0	20 2
152	59.9	3.70	0.0	0.0	0.0	0.0	50 2
153	55.7	4.50	0.0	0.0	0.0	0.0	50 2
154	45.6	3.70	0.0	0.0	0.0	0.0	30 2
155	55.1	3.70	0.0	0.0	0.0	0.0	30 2
156	53.8	5.00	4.01	3.51	2.63	0.0	50 2
157	53.8	3.60	0.0	0.0	0.0	0.0	10 2
158	54.5	4.30	0.0	0.0	0.0	0.0	50 2 30 2
159	51.7	3.80	0.0	0.0	0.0	0.0	
160	53.8	3.70	0.0	0.0	0.0	0.0	50 2
161	55.8	3.50	0.0	0.0	0.0	0.0	20 2 20 2
162	47.8	3.80	0.0	0.0	0.0	0.0	20 2
165	47.5	4.90	3.79	2.66	2.29	0.83	10 2
168	59.3	3.30	0.0	0.0	0.0	0.0	20 2
169	46.1	3.80	0.0	0.0	0.0	0.0	
170	50.7	4.00	0.0	0.0	0.0	0.0	30 2
171	6.8	4.70	2.55	1.66	0.0	0.0	30 2
172	30.6	5.30	3.82	3.90	3.00	0.0	10 2
173	73.2	3.30	0.0	0.0	0.0	0.0	10 2 20 2
174	71.1	3.30	0.0	0.0	0.0	0.0	20 2
175	69.1	4.90	3.79	3.30	3.02	0.0	20 2
177	71.3	3.50	0.0	0.0	0.0	0.0	10 2 30 2

EVENT	DISTANCE	MB	· MS	MS	MS	LQ/LR	COMMENT
NO.	(DEGREES)		T=20SEC	T=30SEC	T = 40 SEC	RATIO	
178	56.4	# E0	0 0				
179	71.3	4.50	0.0	0.0	0.0	0.0	50 2
180		4.40	0.0	0.0	0.0	0.0	50 2
	21.7	4.00	0.0	0.0	0.0	0.0	30 2
181	33.7	4.50	0.0	0.0	0.0	0.0	20 2
182	48.5	4.20	0.0	0.0	0.0	0.0	50 2
183	29.7	4.20	0.0	0.0	0.0	0.0	20 2
184	60.1	4.10	0.0	0.0	0.0	0.0	50 2
186	31.2	3.90	2.36	1.59	0.0	0.0	10 2
187	45.6	3.60	0.0	0.0	0.0	0.0	50 2
188	45.6	3.70	0.0	0.0	0.0	0.0	50 2
189	45.0	4.40	0.0	0.0	0.0	0.0	20 2
190	45.6	4.20	0.0	0.0	0.0	0.0	20 2
191	36.9	4.50	0.0	0.0	0.0	0.0	20 2
192	46.9	3.80	3.03	2.46	0.0	0.0	10 2
193	31.1	4.40	2.77	2.13	0.0	0.0	10 2
194	46.0	4.70	0.0	0.0	0.0	0.0	30 2
195	42.5	3.90	0.0	0.0	0.0	0.0	30 2
196	45.6	3.70	0.0	0.0	0.0	0.0	30 2
197	48.1	3.90	0.0	0.0	0.0	0.0	30 2
198	45.4	3.40	0.0	0.0	0.0	0.0	30 2
199	45.4	3.30	0.0	0.0	0.0	0.0	30 2
200	45.8	4.40	4.11	3.74	3.08	0.0	10 2
201	45.2	3.60	0.0	0.0	0.0	0.0	30 2
202	44.8	3.70	0.0	0.0	0.0	0.0	30 2
203	47.2	3.80	0.0	0.0	0.0	0.0	30 2
204	46.0	4.20	0.0	0.0	0.0	0.0	30 2
205	58.4	3.60	0.0	0.0	0.0	0.0	30 2
206	47.4	4.20	0.0	0.0	0.0	0.0	20 2
207	43.7	4.00	0.0	0.0	0.0	0.0	30 2
208	44.9	4.10	0.0	0.0	0.0	0.0	50 2
209	39.6	3.70	0.0	0.0	0.0	0.0	20 2
210	51.8	4.00	0.0	0.0	0.0	0.0	20 2
211	72.1	3.40	0.0	0.0	0.0	0.0	
212	60.6	4.20	0.0	0.0	0.0		20 2
213	45.7	4.00	0.0	0.0	0.0	0.0	20 2
214	29.6	4.00	0.0	0.0	0.0		30 2
216	59.9	3.70	0.0	0.0	0.0	0.0	20 2
218	68.2	3.70	0.0	0.0	0.0	0.0	50 2
219	59.9	3.40	0.0	0.0		0.0	50 2
220	58.6	3.50	0.0	0.0	0.0	0.0	50 2
231	49.6	4.20	0.0	0.0	0.0	0.0	20 2
232	69.9	*4.40	2.68		0.0	0.0	20 2
283	20.9	3.70	0.0	2.17	0.0	0.0	10 2
284	41.1	3.60	0.0	0.0	0.0	0.0	50 2
285	31.7	3.50		0.0	0.0	0.0	20 2
286	50.7	4.50	0.0	0.0	0.0	0.0	50 2
287	37.7	3.80	0.0	0.0	0.0	0.0	30 2
288	25.3	3.40	0.0	0.0	0.0	0.0	30 2
289	9.6	3.40	0.0	0.0	0.0	0.0	50 2
	J • U	3. nt	0.0	2.42	1.95	0.0	10 2

FVFNT	DISTANCE	MB	MS	MS	MS	LO/LR	COMMENT
N 17 •	(DEGREES)		T=20SEC	T=30SEC	T=40SEC	RATTO	
290	24.2	3.50	0.0	0.0	0.0	0.0	20 2
292	54.5	5.20	0.0	0.0	0.0	0.0	15 2
293	45.7	4.00	0.0	0.0	0.0	0.0	30 2
2911	32.4	5.20	4.06	3.48	0.0	1.90	10 2
295	42.0	3.90	0.0	0.0	0.0	0.0	20 2
296	25.3	3.50	2.54	0.0	0.0	0.0	10 2
297	47.2	5.00	0.0	0.0	0.0	0.0	15 2
298	31.8	3.60	0.0	0.0	0.0	0.0	30 2
299	60.3	3.60	0.0	0.0	0.0	0.0	20 2
300	57.0	4.70	2.97	0.0	0.0	0.0	10 2
301	52.4	3.70	0.0	0.0	0.0	0.0	20 2
302	32.0	3. 20	0.0	0.0	0.0	0.0	20 2
303	56.3	3.90	0.0	0.0	0.0	0.0	20 2
304	56.4	3:60	0.0	0.0	0.0	0.0	20 2
308	36.2	3.40	2.86	2,28	1.70	0.0	10 2
309	26.8	3.40	0.0	0.0	0.0	0.0	50 2
670	57.0	4.00	0.0	0.0	0.0	0.0	20 2
671	51.4	3.60	0.0	0.0	0.0	0.0	30 2
672	35.5	5.50	0.0	0.0	0.0	0.0	20 2
673	13.3	3.80	2.67	2.18	0.0	0.0	10 2
674	52.F	3.60	0.0	0.0	0.0	0.0	50 2
675	5.1	4.00	0.0	0.0	0.0	0.0	30 2
676	4.1	4.80	0.0	0.0	0.0	0.0	30 2
677	30.7	3.60	0.0	0.0	0.0	0.0	20 2
670	60.1	4.20	0.0	0.0	0.0	0.0	30 2
679	59.7	6.30	4.53	4.07	3.65	0.78	10 2
<u> ና</u> ደባ	35.2	5.20	4.12	3.63	3.25	0.59	13 2
681	53.8	3.70	3.23	2.86	0.0	0.0	10 2
682 683	47.5	3.70	0.0	2.89	0.0	0.0	1.3 2
584	65.1	4.40	0.0	0.0	0.0	0.0	50 2
685	65.6	3.60	0.0	0.0	0.0	0.0	30 2
686	21.4	3.70	3.12	2.75	0.0	0.0	10 2
701	72.0 44.0	*4.30	7.0	0.0	0.0	0.0	20 2
702	30.7	4.00	0.0	0.0	0.0	0.0	30 2
703	29.3	5.50 3.80	5.16	5.04	4.61		10 2
704	16.6	5.20	0.0	2.65	0.0		13 2
705	30.6	4.20	4.82	4.46	4.58		10 2
706	59.8	3.70	0.0 0.0	0.0	0.0	0.0	30 2
707	46.5	4.30	0.0	0.0	0.0	0.0	30 2
708	12.5	<b>*4.5</b> 0	3.95	0.0	C.O	0.0	23 2
700		4.10	0.0	0.0	3.97	0.0	10 2
710		4.30	3.94		0.0	0.0	30 2
711	20.7	<b>*5.30</b>	4.59	3.30 4.45	2.64 3.69	0.0	10 2
712		4.30	3.50	0.0		2.78	10 2
711	57.1	4.50	0.0	0.0	0.0	0.0	10 2
714	66.7	4.60	0.0	0.0	0.0	0.0	20 2
715		3.70	0.0	0.0	0.0	0.0	30 2
716	21.7	5.50	4.62	4.56	3.76	0.45	20 2
		. • / •	→ • · · · · · ·	~ • /W	36 737	9.40	10 2

FVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LP RATIO	COMMENT
717	69.7	4.20	0.0	0.0	0.0	0.0	30 2
718	39.1	4.70	4.46	4.07	3.72	0.76	13 2
719	63.4	3.60	0.0	0.0	0.0	0.0	30 2
720	53.7	3.60	00	0.0	0.0	0.0	30 2
721	39.6	3.80	0.0	0.0	0.0	0.0	32 2
722	29.1	3.80	0.0	0.0	0.0	0.0	20 2
723	59.4	4.80	0.0	0.0	0.0	0.0	30 2
724	49.1	3.70	0.0	0.0	0.0	0.0	23 2
725	45.2	3.90	0.0	3.08	2.69	0.0	10 2
726	22.7	4.10	3.73	3.34	0.0	0.0	10 2
727	43.0	3.90	0.0	0.0	0.0	0.0	20 2
728	64.3	4.50	0.0	0.0	0.0	0.0	30 2
729	29.1	3.90	0.0	0.0	0.0	0.0	30 2
730	67.3	3.80	0.05	0.0	0.0	0.0	30 2
731	49.2	3.90	0.0	0.0	0.0	0.0	20 2
732	5.9	4.40	4.D	3.47	0.0	0.0	10 2
733	67.3	3.70	0.0	0.0	0.0	0.0	20 2
734	69.9	4.30	0.0	0.0	0.0	0.0	30 2
735	50.7	4.00	0.0	0.0	0.0	0.0	30 2
736	48.4	3.70	0.0	0.0	0.0	0.0	30 2
737	57.8	4.60	3.81	0.0	3.02	0.0	10 2
738	48.5	3.90	0.0	0.0	0.0	0.0	30 2
739	52.7	4.00	0.0	3.09	0.0	0.26	13 2
741	68.5	*4.80	0.0	3.17	2.40	0.0	13 2
742	44.8	4.00	0.0	0.0	0.0	0.0	10 2
743	27.3	4.00	3. 17	2.78	0.0	0.77	10 2
744	21.7	5.70	5.56	5.11	0 · n	0.44	10 2
745	21.0	4.40	0.0	0.0	0.0	0.0	30 2
746	47.3	3.60	0.0	0.0	0.0	0.0	23 2
747	62.2	4.10	0.0	0.0	0.0	0.0	20 2
748	29.1	4.00	2.99	2.73	0.0	0.0	10 2
749	27.1	4.00	0.0	3.16	2.50	0.0	10 2
750	25.6	4.90	3.72	0.0	3.26	0.0	10 2
751	68.2	4.30	0.0	0.0	0.0	0.0	30 2
753	50.2	4.70	0.0	0.0	0.0	0.0	50 2
754	44.0	3.70	0.0	0.0	0.0	0.0	50 2
755	42.8	5.20	0.0	0.0	0.0	0.0	23 2
756	57.0	3.40	0.0	0.0	0.0	0.0	20 2
757	14.3	3.90	0.0	3.26	2.36	0.0	10 2
758	41.7	5.10	4.19	3.56	0.0	0.0	10 2
759	68.2	4.00	0.0	0.0	0.0	0.0	30 2
760	42.3	5.60	3.95	3.35	2.94	0.0	10 2
761	56.9	5.20	3.68	3.50	3.34	0.0	10 2
762	74.1	4.90	0.0	3.94	0.0	0.0	10 2
763	44.4	3.90	0.0	0.0	0.0	0.0	30 2
764	58.6	4.70	0.0	0.0	0.0	0.0	20 2
765	64.2	4.80	4.05	3.56	2.75	0.0	10 2
766	59.5	3.60	0.0	0.0	0.0	0.0	20 2
767	65.6	4.40	0.0	0.0	0.0	0.0	20 2

EVENT NO.	DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
768	29.3	3.60	0.0	0.0	0.0	0.0	30 2
769	29.3	4.10	0.0	0.0	0.0	0.0	20 2
770	60.2	3.60	0.0	0.0	0.0	0.0	20 2
771	74.2	*4.40	0.0	0.0	0.0	0.0	30 2
772	58.2	3.90	0.0	0.0	0.0	0.0	20 2
773	74.3	3.90	0.0	0.0	0.0	0.0	20 2
774	43.8	4.70	0.0	0.0	0.0	0.0	10 2
775	39.8	5.40	5.25	4.75	4.38	0.40	10 2
776	59.3	4.80	3.82	3.27	3.09	0.59	10 2
777	40.2	4.10	0.0	0.0	0.0	0.0	20 2
778	64.7	5.10	4.04	3.96	3.27	0.0	10 2
779	40.1	3.60	0.0	0.0	0.0	0.0	20 2
780	45.9	3.90	0.0	0.0	0.0	0.0	30 2
781	29.0	5.00	3.85	3.50	2.96	0.99	10 2
782	46.5	4.00	0.0	0.0	0.0	0.0	. 20 2
783	58.3	4.40	0.0	0.0	0.0	0.0	30 2
784	48.2	4.10	0.0	0.0	0.0	0.0	20 2
785	32.0	5.30	4.92	4.11	0.0	0.0	10 2
786 787	64.7	4.30	0.0	0.0	0.0	0.0	20 2
788	40.0	3.70	0.0	3.14	2.84	0.82	10 2
789	28.8 40.1	3.90 4.20	0.0	0.0	0.0	0.0	50 2
790	40.0	4.70	0.0	0.0	0.0	0.0	30 2
791	28.8	3.70	3.54 0.0	3.54	0.0	0.0	10 2
792	84.6	4.50	0.0	3.16 0.0	0.0	0.89	13 2
793	31.9	4.10	0.0	0.0	0.0	0.0	20 2
794	21.1	4.00	0.0	0.0	0.0 0.0	0.0	30 2
795	55.3	3.80	0.0	0.0	0.0	0.0 0.0	30 2
796	63.2	3.50	0.0	0.0	0.0	0.0	20 2 20 2
797	35.2	5.70	3.51	3.81	3.01	0.83	10 2
799	49.1	6.00	6.02	5.34	4.73	0.85	10 2
800	50.2	4.20	0.0	0.0	0.0	0.0	30 2
801	48.6	3.50	0.0	0.0		0.0	50 2
802	49.0	4.80	0.0	0.0	0.0	0.0	50 2
803	48.2	3.60	0.0	0.0	0.0	0.0	20 2
804	49.3	3.70	0.0	0.0	0.0	0.0	30 2
805	68.5	3.70	0.0	0.0	0.0	0.0	20 2
806	50.5	4.30	0.0	0.0	0.0	0.0	20 2
807	49.1	4.30	0.0	0.0	0.0	0.0	30 2
808	48.2	3.90	0.0	0.0	0.0	0.0	20 2
819	50.5	3.60	0.0	0.0	0.0	0.0	30 2
810	50.2	3.60	0.0	0.0	0.0	0.0	20 2
811	51.4	3.60	0.0	0.0	0.0	0.0	30 2
R 12	49.0	4.30	0.0	0.0	0.0	0.0	50 2
813	49.0	4.80	4.22	3.41	0.0	0.41	10 2
R14	48.9	4.10	0.0	0.0	0.0	0.0	50 2
815	57.8	4.70	0.0	0.0	0.0	0.0	20 2
816 817	68.5 45.6	3.90	0.0	0.0	0.0	0.0	20 2
0.17	47.0	3.60	0.0	0.0	0.0	0.0	20 2

# 10 m

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EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T-30CPC	MS m=#0gpg	LO/LR	COMMENT
	(DECIR III D)		1-203EC	T=30SEC	T=40SEC	RATIO	
818	50.0	5.70	4.54	3.75	3.41	0.74	10 2
819	30.7	3.60	0.0	0.0	0.0	0.0	50 2
820	66.6	<b>*4.20</b>	0.0	0.0	0.0	0.0	50 2
821	50.5	4.60	0.0	0.0	0.0	0.0	20 2
822	49.6	4.10	0.0	0.0	0.0	0.0	20 2
823	69.9	<b>*4.30</b>	0.0	0.0	0.0	0.0	20 2
824	47.9	3.40	0.0	0.0	0.0	0.0	20 2
825	49.0	4.70	4.41	3.95	3.24	1.33	10 2
826	64.7	4.70	0.0	0.0	0.0	0.0	20 2
827	66.9	4.40	0.0	0.0	0.0	0.0	50 2
828	48.9	5.70	6.08	5.40	0.0	0.0	10 2
829	49.0	4.80	0.0	0.0	0.0	0.0	30 2
830	49.8	4.30	0.0	0.0	0.0	0.0	20 2
831	49.6	3.80	0.0	0.0	0.0	0.0	20 2
832	49.0	4.70	0.0	0.0	0.0	0.0	20 2
833	48.9	4.10	0.0	0.0	0.0	0.0	20 2
834	49.1	4.80	0.0	0.0	0.0	0.0	20 2
835	47.9	3.70	0.0	0.0	0.0	0.0	20 2
836	49.0	4.60	3.71	3.54	0.0	0.96	10 2
837	49.0	4.90	3.14	3.50	4.12	1.63	
838	32.4	3.40	0.0	0.0	0.0	0.0	10 2
839	68.2	4.00	3.81	3.34	3.05	1.42	20 2
840	49.1	3.80	0.0	0.0	0.0		10 2
841	50.5	3.70	0.0	0.0	0.0	0.0	20 2
842	65.6	4.70	3.81	3.47	3.15	0.0 0.25	20 2
843	57.1	3.80	0.0	0.0	0.0	0.25	10 2
844	64.2	4.60	4.40	4.22	3.89		20 2
845	31.3	4.30	0.0	0.0	0.0	0.0	10 2
846	56.6	4. 10	0.0	0.0	0.0	0.0	50 2
847	27.6	3.70	0.0	0.0		0.0	50 2
848	59.1	4.20	0.0	0.0	0.0 0.0	0.0	20 2
849	73.2	3.70	0.0	0.0	0.0	0.0	20 2
850	60.6	4.10	0.0	0.0		0.0	30 2
851	60.5	4.10	0.0	0.0	0.0	0.0	20 2
852	54.5	4.10	0.0	0.0	0.0	0.0	20 2
853	7.0	3.90	0.0	0.0	0.0	0.0	20 2
854	21.2	3.80	0.0	0.0	0.0	0.0	20 2
855	28.8	4.00	0.0	0.0		0.0	50 2
856	64.1	3.70	0.0	0.0	0.0	0.0	50 2
857	59.5	4.80	0.0	0.0	0.0	0.0	20 2
858	49.6	4.70	0.0	0.0	0.0	0.0	20 2
859	57.4	5.70	5.37		0.0	0.0	60 2
860	59.0	3.50	0.0	5.07 0.0	4.70	0.51	10 2
881	15.8	5.20	3.65	3.85	0.0	0.0	50 2
882	55.5	4. 10	0.0		3.02	0.0	10 2
883	20.4	3.70		0.0	0.0	0.0	20 2
884	31.0	5.50	0.0 4.64	0.0	0.0	0.0	30 2
885	30.9	4.80		3.81	0.0	0.48	10 2
886	28.4	3.80	0.0	0.0	0.0	0.0	20 2
900	20.7	3.00	0.0	0.0	0.0	0.0	20 2

FVENT NO.	DISTANCE (DEGREES)	MB	T=20SEC	MS T=30SEC	MS T=40SEC	LO/IR	COMMENT
			1 - 2 0 0 11 (	1-30.560	1-40566	RATIO	
887	30.5	4.70	0.0	0.0	0.0	0.0	20 2
888	56.2	3.50	0.0	0.0	0.0	0.0	20 2
989	59.5	3.40	0.0	0.0	0.0	0.0	20 2
890	69.0	5.30	4.80	4.27	4.02	0.0	10 2
891	68.9	4.00	0.0	0.0	0.0	0.0	20 2
892	68.9	4.30	0.0	0.0	0.0	0.0	20 2
893	54.2	4.70	0.0	0.0	0.0	0.0	30 2
994	57.0	3.90	0.0	0.0	0.0	0.0	50 2
895	30.1	4.90	0.0	3.51	3.08	0.62	10 2
896	30.7	4.80	0.0	0.0	0.0	0.0	20 2
997	69.1	5.00	0.0	0.0	0.0	0.0	20 2
898	44.6	4.40	3.61	3.32	2.81	0.0	10 2
899	60.7	4.30	0.0	0.0	0.0	0.0	30 2
900	31.2	3.90	0.0	0.0	0.0	0.0	20 2
902	31.7	3.70	0.0	0.0	0.0	0.0	20 2
903	43.9	3.90	0.0	0.0	0.0	0.0	20 2
904	58.6	3.90	3.37	3.05	0.0	1.34	10 2
905	26.9	3.80	0.0	0.0	0.0	0.0	50 2
906	44.8	3.60	0.0	0.0	0.0	0.0	20 2
907	44.8	4.20	0.0	0.0	0.0	0.0	20 2
908	22.6	5.10	0.0	3.49	3.06	0.0	10 2
909	22.6	4.70	3.03	2.80	0.0	0.0	10 2
910	28.4	3.80	0.0	0.0	0.0	0.0	20 2
911	25.3	5.10	3.93	3.93	3.20	0.0	10 2
912	68.4	4.50	0.0	0.0	0.0	0.0	20 2
013	25.0	3.70	0.0	0.0	0.0	0.0	20 2
014	16.1	4.60	0.0	3.18	0.0	0.0	10 2
915	30.7	4.80	0.0	4.15	3.95	0.55	10 2
916	30.7	4.50	0.0	2.89	2.72	0.0	10 2
917	40.4	3.80	3.22	3.22	0.0	0.39	60 2
918	30.B	5.00	3.81	3.01	0.0	0.75	10 2
919	29.6	3.60	0.0	0.0	0.0	0.0	20 2
920	26.3	3.70	0.0	0.0	0.0	0.0	20 2
921	31.3	3.90	0.0	0.0	0.0	0.0	30 2
922	31.3		0.0	0.0	0.0	0.0	20 2
923	48.9	3.90	0.0	0.0	0.0	0.0	20 2
924	32.6		0.0	0.0	0.0	0.0	20 2
9.25	53.8		0.0	0.0	0.0	0.0	20 2
026	22.7	4.90	0.0	0.0	2.72	0.0	10 2
927	66.5	4.60	0.0	0.0	0.0	0.0	20 2
928	49.5	3.40	0.0	0.0	0.0	0.0	20 2
929	26.4	5.10	4.21	3.91	3.45	0.23	10 2
939	25.6	4.50	0.0	0.0	0.0	0.0	30 2
931	24.5	3.70	0.0	0.0	0.0	0.0	20 2
0.35	50.0	5.30	4.66	4.09	0.0	0.0	10 2
933	71.0	4.70	0.0		0.0	0.0	10 2
934	67.3	3.70	0.0	0.0	0.0	0.0	20 2
935	48.6	4.00	0.0	0.0	0.0	0.0	20 2
936	49.5	3.80	3.40	3.11	0.0	0.93	10 2

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EVENT	DISTANCE	MR	MS	MS	MS	LO/LR	COMMENT
NO.	(DEGREES)		T = 20SEC	T = 30 SEC	T=HOSEC	PATTO	
937	55.3	5.20	4.30	3.57	2.97	0.0	10. 2
938	27.9	4.00	0.0	0.0	0.0	0.0	20 ?
939	70.4	4.30	0.0	0.0	0.0	0.0	20 2
940	28.3	5.00	0.0	0.0	0.0	0.0	20 2
941	70.1	4.30	0.0	0.0	0.0	0.0	20 2
942	42.8	4.50	3.72	3.23	2.98	0.31	10 2
943	59.3	4.50	0.0	0.0	0.0	0.0	20 2
944	65.2	3.90	0.0	0.0	0.0	0.0	20 2
945	67.7	3.60	0.0	0.0	0.0	0.0	20 2
946	24.2	4.30	0.0	3.28	0.0	2.60	10 2
947	66.9	3.30	0.0	0.0	0.0	0.0	20 2
948	69.6	3.80	0.0	0.0	0.0	0.0	50 2
1057	59.7	3.70	3.54	0.0	0.0	0.0	20 2
1058	55.3	3.50	0.0	0.0	0.0	0.0	30 2
1059	48.4	3.90	0.0	0.0	0.0	0.0	30 2
1060	56.2	4.20	0.0	0.0	0.0	0.0	30 2
1061	56.2	4.50	0.0	0.0	0.0	0.0	50 2
1062	56.8	3.80	3.14	0.0	0.0	0.0	20 2
1063	31.5	4.00	2.81	0.0	0.0	0.0	20 2
1064	29.3	3.80	4.24	0.0	0.0	0.0	20 2
1065	55.3	4.60	4.11	3.54	0.0	0.69	10 2
1066	56.8	4.00	4.03	3.97	0.0	0.0	10 2
1067	30.0	3.50	2.85	0.0	0.0	0.0	20 2
1068	53.8	4.20	0.0	0.0	0.0	0.0	30 2
1069	9.0	3.80	3.16	3.08	0.0	0.0	10 2
1070	54.7	4.40	3.10	0.0	0.0	0.0	20 2
1071	55.3	4.70	3.27	3.14	2.78	0.0	60 2
1072	69.2	3.10	3.34	0.0	0.0	0.0	20 2
1073	68.1	<b>3.7</b> 0	3.53	0.0	0.0	0.0	50 3
1074	53.8	4.40	3.49	0.0	0.0	0.0	20 2
1075	54.5	3.90	3.22	0.0	0.0	0.0	2n 2
1076	44.8	3.50	0.0	0.0	0.0	0.0	30 2
1077	56.2	4.10	3.14	U.Ú	0.0	0.0	20 2
1078	47.2	4.10	3.39	2.88	0.0	1.24	10 2
1079	8.3	3.60	2.30	2.38	0.0	1.71	10 2
1080	20.0	4.80	4.24	4.29	3.94	2.64	10 2
1081	62.3	4.40	3.44	0.0	0.0	0.0	20 2
1082	47.7	4.30	3.68	3.20	0.0	1.51	10 2
1083	55.2	5.70	5.27	5.05	4.27	0.26	10 2
1084	20.2	4.50	3.17	0.0	0.0	0.0	20 2
1085	55.6	6.10	5.83	5.44	5.23	1.06	10 2
1086	69.0	4.70	4.73	0.0	n.n	0.0	20 2
1087	67.4	4.00	3.51	0.0	0.0	0.0	20 2
1088	55.9	3.90	0.0	0.0	0.0	0.0	50 2
1089	50.1	3.70	3.41	0.0	0.0	0.0	20 3
1090	57.6	4.00	0.0	0.0	0.0	0.0	50 2
1091	10.7	3.70	2.78	2.27	0.0	7.93	10 2
1092	27.1	4.29	3.00	0.0	0.0	0.0	20 2
1093	52.1	4.30	3.61	3.08	0.0	0.0	10 2

EVENT	DISTANCE	MB	MS	MS	MS	LQ/LR	COMMENT
NO.	(DEGREES)		T=20SEC	T=30SEC	T=40SEC	RATIO	
1094	55.9	3.90	0.0	0.0	0.0	0.0	50 2
1095	7.8	4.10	3.26	2.60	0.0	0.0	10 2
1096	58.0	3.50	3.55	0.0	0.0	0.0	20 2
1097	44.8	3.60	3.45	0.0	0.0	0.0	20 2
1098	62.8	3.80	3.45	0.0	0.0	0.0	20 2
1099	61.2	3.60	3.59	0.0	0.0	0.0	20 2
1100	42.6	*4.40	3,56	0.0	0.0	0.0	20 2
1101	59.9	3.70	3.73	0.0	0.0	0.0	20 2
1102	56.2	3.70	3.55	0.0	0.0	0.0	20 2
1103	45.8	3.80	3.45	0.0	0.0	0.0	20 2
1104	53.8	4.50	3.60	0.0	0.0	0.0	60 2
1105	44.8	3.60	0.0	0.0	0.0	0.0	30 2
1106	55.6	5.20	3.61	3.31	3.16	0.0	10 2
1107	62.1	4.30	3.40	0.0	0.0	0.0	20 2
1108	67.3	4.20	3.46	0.0	0.0	0.0	20 2
1109	67.3	3.90	3.43	0.0	0.0	0.0	
1110	59.9	3.50	3.15	0.0	0.0	0.0	
1111	45.7	4.00	3. 12	0.0	0.0	0.0	20 2 20 2
1112	14.4	5.20	4.50	4.13	3.60	3.27	10 2
1113	12.2	4.00	0.0	2.58	2.00	7.45	10 2
1114	57.8	4.20	3.56	3.20	2.77	0.0	10 2
1115	47.9	4.30	3. 12	0.0	0.0	0.0	20 2
1116	48.6	3.80	0.0	0.0	0.0	0.0	30 2
1117	63.7	4.70	0.0	0.0	0.0	0.0	50 2
1118	63.6	4.60	3.64	0.0	0.0	0.0	20 2
1119	69.0	4.00	3.53	0.0	0.0	0.0	20 2
1120	55.5	4.40	3.73	3.54	0.0	1.09	60 2
1121	56.2	4.50	0.0	0.0	0.0	0.0	30 2
1122	51.1	3.90	0.0	3.36	0.0	0.0	60 2
1123	58.5	4.80	3.67	3.06	0.0	0.0	60 2
1124	59.5	3.70	3.42	0.0	0.0	0.0	20 2
1125	55.3	*5.30	4.92	4.05	3.82	0.58	10 2
1126	47.5	3.40	3.27	0.0	0.0	0.0	20 2
1127	56.2	4.70	0.0	0.0	0.0	0.0	30 2
1128	69.7	3.50	0.0	0.0	0.0	0.0	30 2
1130	22.9	3.90	3.16	2.68	0.0	1.38	10 2
1131	25.8	4.80	0.0	0.0	0.0	0.0	30 2
1132	22.8	5.50	5.29	5.13	4.69	2.80	10 2
1133	14.9	4.10	3.15	0.0	0.0	0.0	20 2
1134	59.3	3.60	3.47	.3.24	0.0	1.81	60 2
1135	28.5	3.80	3.27	0.0	0.0	0.0	20 2
1136	57.8	3.90	0.0	0.0	0.0	0.0	30 2
1137	64.9	3.80	0.0	0.0	0.0	0.0	30 2
1138	49.1	4.00	3.23	3.00	0.0	0.0	10 2
1139	69.2	4.10	3.48	0.0	0.0	0.0	20 2
1140	56.2	4.10	3. 19	0.0	0.0	0.0	20 2
1141	43.2	5.20	4.04	0.0	0.0	1.08	10 2
1142	48.9	4.00	3.26	0.0	0.0	0.0	20 2
1143	23.6	5.30	5.41	5.00	4.55	0.53	10 2

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1144	23.8	4.30	4.51	0.0	0.0	0.0	20 2
1145	23.3	4.40	3.48	3.18	2.91	0.52	10 2
1146	30.3	3.80	0.0	0.0	0.0	0.0	30 2
1152	59.1	4.70	4.45	0.0	0.0	0.0	20 2
1153	32.0	3.80	3.80	0.0	0.0	0.0	20 2
1154	33.2	3.80	0.0	0.0	0.0	0.0	30 2
1155	32.2	4.40	4.26	3.78	0.0	1.14	10 2
1156	31.7	3.80	0.0	0.0	0.0	0.0	20 2
1161	24.1	4.30	0.0	2.40	0.0	0.0	10 2
1162	48.0	4.20	0.0	0.0	0.0	0.0	50 2
1163	48.9	3.80	3.19	0.0	0.0	0.0	20 2
1164	18.1	4.80	3.77	3.46	0.0	1.83	10 2
1165	46.6	4.30	4.08	3.51	0.0	0.84	10 2
1166	47.5	5.20	4.94	4.14	0.0	0.93	10 2
1167	29.4	3.70	0.0	0.0	0.0	0.0	30 2
1168	47.6	5.30	0.0	0.0	0.0	0.0	50 2
1169	46.9	3.60	3.16	0.0	0.0	0.0	20 2
1170	46.7	4.10	3.26	0.0	0.0	0.0	20 2
1171	45.3	4.00	0.0	3.27	0.0	0.78	60 2
1172	47.6	5.40	4.74	3.94	0.0	0.40	10 2
1173	47.2	3.90	0.0	0.0	0.0	0.0	30 2
1174	47.6	4.70	0.0	0.0	0.0	0.0	30 2
1175	47.6	4.10	0.0	0.0	0.0	0.0	30 2
1176	47.6	4.50	4.57	0.0	0.0	0.0	20 2
1177	47.6	4.20	0.0	0.0	0.0	0.0	30 2
1178	47.6	4.60	4.65	4.18	0.0	0.81	10 2
1179	47.6	4.70	0.0	0.0	0.0	0.0	30 2
1180	47.5	5.30	4.99	3.96	0.0	0.57	10 2
1181 1182	48.2 47.7	3.40	3.96	0.0	0.0	0.0	20 2
1183	47.5	5.40	5.53	4.73	0.0	0.96	10 2
1184	49.5	4.50 3.60	0.0	0.0	0.0	0.0	30 2
1186	47.9	3.50	0.0 3.38	0.0	0.0	0.0	30 2
1187	47.5	4.10	3.97	0.0	0.0	0.0	20 2
1188	47.9	3.70	0.0	0.0	0.0	0.23	10 2
1189	47.9	3.30	2.89	0.0	0.0	0.0	30 2
1190	47.5	4.40	4.02	3.60	0.0 0.0	0.0	20 2
1191	47.6	4.10	0.0	0.0	0.0	0.0	10 2
1192	47.7	4.10	0.0	0.0	0.0	0.0	30 2 30 2
1193	46.9	3.60	2.87	0.0	0.0	0.0	
1194	47.5	4.20	3.72	3.10	0.0	0.55	20 2 10 2
1195	46.9	3.70	0.0	0.0	0.0	0.0	30 2
1196	47.6	4.30	0.0	0.0	0.0	0.0	30 2
1197	47.9	3.60	0.0	0.0	0.0	0.0	30 2
1198	47.5	4.90	4.14	3.40	0.0	1.44	10 2
1199	47.6	4.50	0.0	0.0	0.0	0.0	30 2
1200	20.9	4.20	3.64	2.98	0.0	0.60	10 2
1201	47.9	4.20	0.0	0.0	0.0	0.0	30 2
1202	47.9	4.20	0.0	0.0	0.0	0.0	30 2

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1203	48.9	3.40	0.0	0.0	0.0	0.0	30 2
1204	52.1	3.70	3.45	0.0	0.0	0.0	20 2
1205	43.4	4.30	0.0	3.25	2.95	2.75	10 2
1206	26.5	3.90	0.0	0.0	0.0	0.0	
1207	55.9	3.60	0.0	0.0	0.0	0.0	30 2
1208	47.7	4.10	3.56	0.0	0.0	0.0	20 2
1209	47.5	3.70	0.0	0.0	0.0	0.0	20 2 30 2
1211	28.4	3.80	0.0	0.0	0.0	0.0	50 2
1212	56.9	4.30	3.48	0.0	0.0	0.0	
1213	49.5	3.70	3.45	0.0	0.0	0.0	20 2
1214	57.0	3.40	0.0	0.0	0.0	0.0	20 2 30 2
1215	28.4	3.60	3.95	0.0	0.0	0.0	
1216	17.9	3.80	3.05	0.0	0.0	0.0	20 2
1217	46.9	3.90	3.11	0.0	0.0	0.0	20 2 20 2
1219	56.2	4.20	0.0	o.ñ	0.0	0.0	30 2
1219	28.6	3.70	0.0	3.42	0.0	0.74	60 2
1220	18.4	3.90	0.0	0.0	0.0	0.0	50 2
1221	11.6	3.80	0.0	0.0	0.0	0.0	50 2
1222	48.2	3.70	0.0	0.0	0.0	0.0	
1223	58.8	5.10	4.41	3.85	3.55	0.41	20 2
1224	28.6	3.80	0.0	0.0	0.0	0.0	10 2
1225	114.8	3.60	0.0	0.0	0.0	0.0	30 2
1226	59.5	3.70	3.38	0.0	0.0	0.0	50 2 20 2
1227	29.4	4.70	0.0	3.12	0.0	0.0	
1229	28.9	3.70	0.0	0.0	0.0	0.0	
1229	56.2	4.10	0.0	0.0	0.0	0.0	30 2 30 2
1230	48.2	3.50	2.95	0.0	0.0	0.0	20 2
1231	31.1	5.10	3.38	0.0	0.0	0.0	10 2
1232	55.8	5.60	5.21	5.22	0.0	0.0	10 2
1233	46.2	3. 20	2.85	0.0	0.0	0.0	20 2
1234	63.9	3.40	2.96	0.0	0.0	0.0	20 2
1235	46.2	3.60	2.92	0.0	0.0	0.0	20 2
1236	35.5	5.40	3.18	3.10	0.0	0.0	60 2
1237	47.6	4.20	0.0	0.0	0.0	0.0	20 2
1238	25.0	3.40	0.0	0.0	0.0	0.0	30 2
1239	42.5	4.40	0.0	0.0	0.0	0.0	50 2
1240	28.9	4.00	2.54	0.0	0.0	0.0	20 2
1241	25.9	3.40	0.0	0.0	0.0	0.0	20 2
1242	48.9	4.00	0.0	2.98	2.59	0.71	60 2
1243	31.4	4.20	2.90	2.50	0.0	2.97	10 2
1244	49.1	3.50	3.13	0.0	0.0	0.0	20 2
1245	59.5	3.70	3.27	0.0	0.0	0.0	20 2
1245	10.7	3.60	0.0	2.01	0.0	2.17	10 2
1247	59.7	4.00	3.49	2.74	0.0	2.06	60 2
1248	56.2	3.90	0.0	0.0	0.0	0.0	30 2
1249	49.1	4.00	3.34	0.0	0.0	0.0	20 2
1250	51.8	4.10	0.0	0.0	0.0	0.0	30 2
1251	58.0	3.90	0.0	0.0	0.0	0.0	30 2
1252	55.9	3.40	0.0	0.0	0.0	0.0	20 2

# CHIANG MAI, THATIAND

FVENT NO.	DISTANCE (DEGREES)	MR	MS T=20SFC	MS T=30SEC	MS T=40SEC	LO/LP RATIO	COMMENT
1253	48.4	3.80	0.0	0.0	0.0	0.0	20 2
1254	40.8	4.60	3.54	0.0	0.0	0.0	20 2
1255	59.0	3.60	0.0	0.0	0.0	0.0	30 2
1256	60.1	3.30	3.22	0.0	0.0	0.0	20 2
1258	46.2	3.90	3.23	0.0	0.0	0.0	20 2
1259	54.3	4.00	3.72	0.0	0.0	0.0	20 2
1260	59.5	4.80	3.87	0.0	0.0	0.56	60 2
1261	59.7	3.50	3.87	3.45	0.0	0.43	£0 2
1262	59.0	3.70	3.18	0.0	0.0	0.0	20 3
1263	35.8	5.30	3.02	2.54	0.0	0.0	60 2
1269	39.9	5.30	0.0	0.0	0.0	0.0	20 2
1270	59.7	6.80	4.67	4.24	0.0	1.14	10 2
1277	58.6	4.20	0.0	0.0	0.0	0.0	20 2
1278	58.7	4.40	0.0	0.0	0.0	0.0	20 2
1279	59.2	4.80	0.0	0.0	0.0	(). ()	20 2
1280	35.1	6.00	3.30	2.86	0.0	0.0	10 2

APPENDIX II-E
BASIC DATA FOR
FAIRBANKS, ALASKA (FBK)

FVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
3	32.4	4.00	0.0	0.0	0.0	0.0	20 3
4	39.4	4.00	0.0	0.0	0.0	0.0	30 3
5	76.8	4.20	0.0	0.0	0.0	0.0	20 3
6	65.7	5.20	0.0	0.0	0.0	0.0	20 3
7	29.6	4.80	0.0	0.0	0.0	0.0	
8	29.4	4.50	0.0	0.0	0.0	0.0	20 <b>3</b> 20 <b>3</b>
a	36.1	3.40	0.0	0.0	0.0	0.0	
10	26.0	4.30	0.0	0.0	0.0	0.0	20 3 20 3
11	69.A	4.80	0.0	0.0	0.0	0.0	20 3
12	24.3	4.40	0.0	0.0	0.0	0.0	20 3
1 3	69.7	*4.60	0.0	0.0	0.0	0.0	
14 .	53.7	3.90	0.0	0.0	0.0	0.0	20 <b>3</b> 20 <b>3</b>
15	44.7	3.80	0.0	0.0	0.0	0.0	20 3
16	40.8	4.50	0.0	0.0	0.0	0.0	20 3
17	66.6	4.00	0.0	0.0	0.0	0.0	20 3
18	72.4	4.50	0.0	0.0	0.0	0.0	
19	21.9	4.00	0.0	0.0	0.0	0.0	20 3 60 3
2.0	25.2	3.90	0.0	0.0	0.0	0.0	
21	69.8	4.70	0.0	0.0	0.0	0.0	20 3
2.2	68.4	4.70	0.0	0.0	0.0	0.0	20 3
2.3	83.7	5.20	0.0	0.0	0.0	0.0	30 3
2.4	73.4	3.90	0.0	0.0	0.0	0.0	20 3
25	70.5	4.20	0.0	0.0	0.0	0.0	20 3
26	71.4	4.70	6.17	3.84	0.0	0.35	50 3
27	70.5	4.60	0.0	0.0	0.0	0.0	10 3
2 9	25.5	3.60	0.0	0.0	0.0	0.0	30 3
29	24.0	4.30	0.0	0.0	0.0	0.0	20 3
30	39.2	3.80	3.69	0.0	0.0	0.0	20 3
3.1	71.8	5.00	5.90	4.64	6.11	1.43	10 3
3.2	24.9	4.40	0.0	0.0	0.0	0.0	10 3
33	23.7	3.90	0.0	0.0	0.0	0.0	20 3
34	41.0	4.00	0.0	0.0	0.0	0.0	20 3
35	77.4	4.40	0.0	0.0	0.0	0.0	20 3
36	79.9	4.90	0.0	0.0	0.0	0.0	50 3
37	24.9	4.20	0.0	0.0	0.0	0.0	20 3
38	25.1	4.00	3.48	0.0	0.0	0.50	20 3
3.9	27.9	5.30	0.0	0.0	0.0	0.0	10 3
40	16.2	3.90	0.0	0.0	0.0	0.0	20 3
4.1	81.6	5.10	0.0	0.0	0.0	0.0	20 3
4.2	32.9	3.90	0.0	0.0	0.0	0.0	20 3
4 1	40.7	4.70	3.58	0.0	0.0	1.31	20 3
44	68.6	5.47	0.0	0.0	0.0	0.0	10 3
115	69.3	4.6C	0.0	0.0	0.0		30 3
1111	25.5	3.80	0.0	0.0	0.0	0.0	30 3
4.7	25.2	3.90	0.0	0.0	0.0		20 3
4.8	89.5	4.10	0.0	0.0	0.0	0.0	20 3
40	39.3	4.80	0.0	0.0	0.0	0.0	20 3
t,()	76.8	4.90	0.0	0.0	0.0	0.0	20 3
5.1	69.3.	4.10	0.0	0.0	0.0	0.0	20 3 20 3

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATTO	COMMENT
52	78.4	4.80	0.0	0.0	0.0	0.0	30 3
53	71.4	3.80	0.0	0.0	0.0	0.0	20 3
54	33.9	4.20	0.0	0.0	0.0	0.0	30 3
55	77.5	4.40	0.0	0.0	0.0	0.0	30 3
56	29.9	4.20	0.0	0.0	0.0	0.0	50 3
57	25.3	4.00	0.0	0.0	0.0	0.0	30 3
58	30.1	4.00	0.0	0.0	0.0	0.0	30 3
59	27.3	4.60	0.0	0.0	0.0	0.0	20 3
60	70.3	*4.20	0.0	0.0	0.0	0.0	20 3
61	69.6	4.80	0.0	0.0	0.0	0.0	20 3
62	69.7	4.60	0.0	0.0	0.0	0.0	20 3
6.3	70.3	*3.70	0.0	0.0	0.0	0.0	20 3
65	24.4	3.80	0.0	0.0	0.0	0.0	20 3
66	33.1	4.10	0.0	0.0	0.0	0.0	20 3
67	40.6	3.20	0.0	0.0	0.0	0.0	20 3
68	80.5	4.00	0.0	0.0	1.0	0.0	20 3
69	33.1	4.80	0.0	0.0	0.0	0.0	20 3
70	25.1	3.80	0.0	0.0	0.0	0.0	20 3
71	25.5	3.80	0.0	0.0	0.0	0.0	20 3
72	63.4	4.40	0.0	0.0	0.0	0.0	20 3
73	84.7	*4.19	0.0	3.92	0.0	0.72	10 3
74	99.3	4.00	0.0	0.0	0.0	0.0	20 3
75	67.5	4.50	0.0	0.0	0.0	0.0	20 3
76	66.3	4.40	0.0	0.0	0.0	0.0	20 3
77	44.5	4.00	0.0	0.0	0.0	0.0	20 3
78	32.2	3.80	3.19	0.0	0.0	0.89	10 3
80	83.2	3.90	0.0	0.0	0.0	0.0	20 3
81	54.3	3.90	0.0	3.37	0.0	2.44	10 3
82	25.2	4.10	0.0	0.0	0.0	0.0	20 3
83	26.0	3.60	0.0	0.0	0.0	0.0	20 3
84	25.6	3.70	0.0	0.0	0.0	0.0	20 3
85	38.7	3.60	0.0	0.0	0.0	0.0	20 3
87	75.9	4.60	0.0	3.54	0.0	0.67	10 3
88	73.6	5.10	0.0	0.0	4.40	0.0	10 3
89	76.9	4.50	4.38	0.0	0.0	1.82	10 3
90	70.3	*4.50	0.0	3.66	0.0	0.50	10 3
9.2	70.2	4.80	0.0	0.0	0.0	0.0	20 J
93	34.3	4.80		0.0		0.93	10 3
94	70.2	4.40	0.0	0.0	0.0	0.0	50 3
95	76.3	5.20	0.0	4.81	3.95	0.87	10 3
96	99.8	4.50	0.0	3.65	0.0	0.0	10 3
97	70.3	*4.10	3.37	3.11	0.7	0.78	10 3
98	70.3	*4.30	0.0	0.0	0.0	0.0	50 B
97	70.3	*4.10	0.0	0.0	0.0	0.0	50 3
100	69.0	3.60	0.0	0.0	0.0	0.0	50 3
101	70.3	*4.30	0.0	0.0	0.0	0.0	50 3
102	71.0	*3.70	0.0	0.0	0.0	0.0	30 €
103	70.9	*4.00	0.0	0.0	7.0	0.0	50 s
104	70.2	*4.30	0.0	0.0	0.0	0.0	>0 3

Busha	22.22.42.						
EVENT NO.	DISTANCE	MB	MS	MS	MS	LQ/LR	COMMENT
110.	(DEGREES)		T=20SEC	T=30SEC	T=40SEC	RATIO	
105	70.4	*4.10	3.72	0 0			
106	70.1	*4.40	0.0	0.0	0.0	0.0	10 3
107	76.3	4.10	0.0	0.0	0.0	0.0	20 3
108	66.5	4.70	0.0	0.0	0.0	0.0	20 3
109	63.0	4.30	0.0	0.0	0.0	0.0	20 3
110	70.3	*3.80	0.0	0.0	0.0	0.0	20 3
111	28.8	4.80	3.50	0.0	0.0	0.0	20 3
112	72.6	5.70	5. 12	0.0	0.0	1.64	10 3
113	70.3	*4.30	0.0	0.0 0.0	4.39	2.41	10 3
114	69.3	4.80	0.0	3.56	0.0	0.0	20 3
115	84.6	4.30	0.0	0.0	0.0	0.84	10 3
116	59.5	5.50	0.0	0.0	0.0	0.0	20 3
117	84.3	4.50	0.0	0.0	0.0	0.0	20 3
118	84.4	3.90	0.0	0.0	0.0	0.0	30 3
119	84.5	4.10	0.0	3.37	0.0 0.0	0.0	20 3
120	69.4	4.90	4.30	4.04	3.73	2.11	10 3
122	28.8	3.90	0.0	0.0	0.0	0.47	10 3
123	25.0	4.60	0.0	3.61	0.0	0.0	20 3
124	41.1	3.80	0.0	0.0	0.0	0.63	10 3
125	77.8	4.50	0.0	0.0	0.0	0.0	20 3
126	24.5	3.90	3.82	0.0	0.0	0.0	30 3
127	37.4	4.10	0.0	0.0	0.0	0.0	10 3
128	78.0	4.50	0.0	0.0	0.0	0.0	20 3
129	66.8	4.80	0.0	3.37	0.0	0.0	50 3
130	36.9	3.70	0.0	0.0	0.0	0.39	10 3
131	40.7	4.70	0.0	3.15	0.0	0.0 1.43	20 3
132	26.2	4.00	0.0	0.0	0.0	0.0	10 3
133	39.5	5.20	0.0	3.50	0.0	1.40	20 3
134	39.3	5.40	4.73	0.0	4.17	1.05	10 3
135	79.2	3.90	0.0	0.0	0.0	0.0	10 3
136	38.1	4.20	0.0	0.0	0.0	0.0	20 3
137	67.0	3.90	0.0	0.0	0.0	0.0	20 3
138	37.7	4.10	0.0	0.0	0.0	0.0	20 3
139	26.8	4.80	4.02	3.80	0.0	1.37	20 3 10 3
140	67.9	4.00	0.0	0.0	0.0	0.0	20 3
141	74.3	5.30	0.0	3.86	4.25	0.83	30 3
142	32.9	4.10	0.0	0.0	0.0	0.0	20 3
143	27.9	3.40	3.21	0.0	0.0	0.99	10 3
144	74.5	4.00	0.0	0.0	0.0	0.0	20 3
145	40.4	4.80	0.0	3.50	0.0	2.59	10 3
146	39.9	4.70	3.45	0.0	0.0	0.92	10 3
147	40.2	4.90	3.52	0 • 0.	0.0	1.28	10 3
148 149	38.6	3.70	0.0	0.0	0.0	0.0	20 3
	24.2	3.70	0.0	0.0	0.0	0.0	20 3
150 151	73.7	4.10	0.0	0.0	0.0	0.0	20 3
152	72.4	4.30	0.0	3.10	0.0	1.22	10 3
153	25.7	3.70	0.0	0.0	0.0	0.0	60 3
154	29.3	4.50	0.0	0.0	0.0	0.0	20 3
1.54	37.8	3.70	0.0	0.0	0.0	0.0	20 3

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
155	35.5	3.70	0.0	0.0	0.0	0.0	20 3
156	33.2	5.00	4.33	0.0	0.0	0.95	10 3
157	33.4	3.60	0.0	0.0	0.0	0.0	30 3
158	28.0	4.30	0.0	0.0	0.0	0.0	30 3
159	33.3	3.80	0.0	0.0	0.0	0.0	20 3
160	33.4	3.70	0.0	0.0	0.0	0.0	20 3
161	33.1	3.50	0.0	0.0	0.0	0.0	20 3
162	39.1	3.80	0.0	0.0	0.0	0.0	20 3
163	65.0	3.70	0.0	0.0	0.0	0.0	20 3
164	32.8	4.00	0.0	0.0	0.0	0.0	20 3
165	32.7	4.90	4.23	0.0	0.0	1.64	10 3
166	79.6	3.80	0.0	0.0	0.0	0.0	20 3
167	36.1	4.90	0.0	0.0	0.0	0.0	20 3
168	26.1	3.30	0.0	0.0	0.0	0.0	20 3
169	37.0	3.80	3.13	0.0	0.0	0.85	10 3
170 171	34.4 73.9	4.00 4.70	0.0	0.0	0.0	0.0	20 3
172	73.9 54.7	5.30	3.93 4.82	0.0	0.0 4.36	1.93 0.63	10 3 10 3
173	24.6	3.30	0.0	0.0	0.0	0.0	20 3
174	26.1	3.30 3.30	0.0	0.0	0.0	0.0	20 3
175	27.9	4.90	4.26	0.0	4.37	0.66	10 3
176	29.2	4. 10	0.0	0.0	0.0	0.0	30 3
177	25.0	3.50	0.0	0.0	0.0	0.0	20 3
178	30.4	4.50	0.0	0.0	0.0	0.0	20 3
179	27.9	4.40	3.24	3.14	0.0	0.0	10 3
180	66.8	4.00	0.0	0.0	0.0	0.0	20 3
181	51.3	4.50	0.0	0.0	0.0	0.0	30 3
182	38.7	4.20	0.0	0.0	0.0	0.0	20 3
183	73.8	4.20	0.0	0.0	0.0	0.0	20 3
184	<b>25.</b> 0	4.10	0.0	0.0	0.0	0.0	20 3
185	27.2	3.30	0.0	0.0	0.0	0.0	20 3
186	55.0	3.90	3.14	0.0	0.0	0.97	10 3
187	82.3	3.60	0.0	0.0	0.0	0.0	20 3
188	82.3	3.70	0.0	0.0	0.0	0.0	30 3
189	84.5	4.30	0.0	0.0	0.0	0.0	20 3
190	82.9	4.20	0.0	0.0	0.0	0.0	20 3
191	47.1	4.50	0.0	0.0	0.0	0.0	20 3
192 193	83.0 75.1	3.80 4.40	0.0	0.0	0.0	0.0	20 3
194	84.2	4.70	0.0 0.0	0.0 0.0	0.0	0.0	30 3 30 3
195	86.4	3.90	0.0	0.0	0.0	0.0	30 3
196	83.8	3.70	0.0	0.0	0.0	0.0	30 3
197	80.2	3.90	0.0	0.0	0.0	0.0	30 3
198	81.7	3.40	0.0	0.0	0.0	0.0	30 3
199	81.7	3.30	0.0	0.0	0.0	0.0	30 3
200	85.7	4.40	0.0	0.0	0.0	0.0	30 3
201	82.1	3.60	0.0	0.0	0.0	0.0	20 3
202	82.7	3.70	0.0	0.0	0.0	0.0	20 3
203	80.6	3.80	0.0	0.0	0.0	0.0	20 3

NO. (DEGREFS)  T=20SFC T=10SEC T=40SEC RATIO  204  92.8  4.20  0.0  0.0  0.0  0.0  7.47  10 3  207  81.8  4.00  0.0  0.0  0.0  0.0  0.0  20 3  207  81.8  4.00  0.0  0.0  0.0  0.0  0.0  0.0	FVFNT	DISTANCE	MP	MS	45	MS	LQ/LR	COMMENT
205	NO.	(DEGREES)		T = 20SFC				CORTALIA
295			4.20	0.0	0.0	0.0	0 0	20.2
206. 84.2 4.20 0.0 0.0 0.0 0.0 0.0 0.0 30 3 207 83.8 4.00 0.0 0.0 0.0 0.0 0.0 0.0 20 3 209 85.2 3.70 0.0 0.0 0.0 0.0 0.0 20 3 2110 81.6 4.00 0.0 0.0 0.0 0.0 0.0 20 3 2111 25.2 3.40 0.0 0.0 0.0 0.0 0.0 20 3 2112 24.6 4.20 0.0 0.0 0.0 0.0 0.0 20 3 2113 85.0 4.00 0.0 0.0 0.0 0.0 0.0 30 3 2114 71.0 4.00 3.76 0.0 0.0 0.0 0.0 30 3 2117 78.2 3.90 0.0 0.0 0.0 0.0 0.0 20 3 2117 78.2 3.90 0.0 0.0 0.0 0.0 0.0 20 3 2119 25.7 1.40 0.0 0.0 0.0 0.0 0.0 30 3 2119 25.7 1.40 0.0 0.0 0.0 0.0 0.0 30 3 2210 73.3 3.60 0.0 0.0 0.0 0.0 0.0 30 3 2211 73.3 3.60 0.0 0.0 0.0 0.0 0.0 30 3 2211 73.3 3.60 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 73.3 3.60 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 73.3 3.60 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 73.3 3.60 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 73.3 3.60 0.0 0.0 0.0 0.0 0.0 0.0 20 3 222 25.3 3.60 0.0 0.0 0.0 0.0 0.0 0.0 20 3 223 41.4 44.30 0.0 0.0 0.0 0.0 0.0 0.0 20 3 224 83.2 4.00 0.0 0.0 0.0 0.0 0.0 20 3 225 66.8 1.50 0.0 0.0 0.0 0.0 0.0 0.0 20 3 227 22.6 4.10 0.0 0.0 0.0 0.0 0.0 0.0 20 3 228 37.1 4.60 0.0 0.0 0.0 0.0 0.0 20 3 229 28.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.1 4.60 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.1 4.60 0.0 0.0 0.0 0.0 0.0 20 3 221 37.1 4.60 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 4.10 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 4.10 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 4.10 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 37.7 3.80 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 38.7 4.7 4.10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 38.7 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20 3 221 38.7 4.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20 3		24.4						
207	206	84.2	4.20					
208	207	83.8						
200	20H	84.5						
210	209	85.2						
211	210	81.6						
212         24.6         4.20         0.0         0.0         0.0         0.0         30.3         3           213         85.0         4.00         0.0         0.0         0.0         0.0         30.3         3           216         28.3         3.70         0.0         0.0         0.0         0.0         20.3           217         78.2         3.90         0.0         0.0         0.0         0.0         20.3           218         26.4         3.70         0.0         0.0         0.0         0.0         30.3           219         25.7         3.40         0.0         0.0         0.0         0.0         30.3           210         28.9         3.50         0.0         0.0         0.0         0.0         20.3           221         73.3         3.60         0.0         0.0         0.0         0.0         20.3           221         73.3         3.60         0.0         0.0         0.0         0.0         20.3           222         25.3         3.60         0.0         0.0         0.0         0.0         20.3           2224         83.2         4.00         0.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
213         85.0         4.00         0.0         0.0         0.0         0.0         30.3         0         0.0         0.0         0.0         0.0         0.0         20         3         3         3         3         0         0.0		24.6	4.20					
214         71.0         4.00         3.76         0.0         0.0         0.0         0.0         20         3           216         28.3         3.70         0.0         0.0         0.0         0.0         20         3           217         78.2         3.90         0.0         0.0         0.0         0.0         20         3           218         26.4         3.70         0.0         0.0         0.0         0.0         0.0         20         3           219         25.7         3.40         0.0         0.0         0.0         0.0         0.0         30         3           220         28.9         3.50         0.0         0.0         0.0         0.0         20         3           221         73.3         3.60         0.0         0.0         0.0         0.0         20         3           222         25.3         3.60         0.0         0.0         0.0         0.0         20         3           223         #1.4         *4.30         0.0         0.0         0.0         0.0         20         3           224         #3.5         0.0         0.0         0.0	213	85.0	4.00					
216         28.3         3.70         0.0         0.0         0.0         0.0         0.0         20.3         3         3         3         90         0.0         0.0         0.0         0.0         20.3         3         218         26.4         3.70         0.0         0.0         0.0         0.0         0.0         30.3         3         219         25.7         3.40         0.0         0.0         0.0         0.0         0.0         30.3         3         3         3         60         0.0         0.0         0.0         0.0         0.0         20.3         3         3         60         0.0         0.0         0.0         0.0         0.0         20.3         3         3         60         0.0         0.0         0.0         0.0         0.0         20.3         3         222         25.3         3.60         0.0         0			4.00					
217         78.2         3,90         0.0         0.0         0.0         0.0         0.0         20.3         3         20.0         20.3         3.70         0.0         0.0         0.0         0.0         30.3         3         3         220         228.9         3.50         0.0         0.0         0.0         0.0         20.3         3         3         60         0.0         0.0         0.0         0.0         20.3         3         222         25.3         3.60         0.0         0.0         0.0         0.0         20.3         3         223         41.4         **4.30         0.0         0.0         0.0         0.0         0.0         20.3         3         224         83.2         4.00         0.0         0.0         0.0         0.0         20.3         3         225         66.8         3.50         0.0         0.0         0.0         0.0         0.0         20.3         3         3         226         33.5         4.60         0.0         0.0         0.0         0.0         0.0         3         3         3         227         226.6         4.10         0.0         0.0         0.0         0.0         0.0         0.0         0.0 </td <td></td> <td></td> <td>3.70</td> <td></td> <td></td> <td></td> <td></td> <td></td>			3.70					
218       26.4       3.70       0.0       0.0       0.0       0.0       303       3         219       25.7       3.40       0.0       0.0       0.0       0.0       0.0       303       3         220       28.9       3.50       0.0       0.0       0.0       0.0       0.0       203         221       73.3       3.60       0.0       0.0       0.0       0.0       0.0       203         222       25.3       3.60       0.0       0.0       0.0       0.0       0.0       203         224       83.2       4.00       0.0       0.0       0.0       0.0       0.0       203         225       66.8       3.50       0.0       0.0       0.0       0.0       0.0       203         227       28.6       4.10       0.0       0.0       0.0       0.0       303       3         227       28.6       4.10       0.0       0.0       0.0       0.0       203       3         230       28.7       3.80       0.0       0.0       0.0       0.0       203       3         240       29.7       4.10       0.0       0.0			3.90					
219         25.7         3.40         0.0         0.0         0.0         0.0         30 3           220         28.9         3.50         0.0         0.0         0.0         0.0         20 3           221         73.3         3.60         0.0         0.0         0.0         0.0         20 3           222         25.3         3.60         0.0         0.0         0.0         0.0         0.0         20 3           223         41.4         *4.30         0.0         0.0         0.0         0.0         0.0         20 3           224         83.2         4.00         0.0         0.0         0.0         0.0         20 3           225         66.8         3.50         0.0         0.0         0.0         0.0         20 3           226         39.5         4.60         0.0         0.0         0.0         0.0         30 3           227         28.6         4.10         0.0         0.0         0.0         0.0         20 3           229         28.7         3.80         0.0         0.0         0.0         0.0         20 3           231         39.7         4.20         0.0				0.0				
220         28.9         3.50         0.0         0.0         0.0         0.0         20.3           221         73.3         3.60         0.0         0.0         0.0         0.0         0.0         20.3           223         #1.4         *4.30         0.0         0.0         0.0         0.0         20.3           224         83.2         4.00         0.0         0.0         0.0         0.0         20.3           226         66.8         3.50         0.0         0.0         0.0         0.0         30.3           226         39.5         4.60         0.0         0.0         0.0         0.0         30.3           227         28.6         4.10         0.0         0.0         0.0         0.0         30.3           227         28.6         4.10         0.0         0.0         0.0         0.0         20.3           229         28.7         3.80         0.0         0.0         0.0         0.0         20.3           231         39.5         4.20         0.0         0.0         0.0         0.0         20.3           231         39.6         4.40         0.0         3.18			3.40	0.0				
221       73.3       3.60       0.0       0.0       0.0       0.0       0.0       20.3         222       25.3       3.60       0.0       0.0       0.0       0.0       0.0       20.3         224       83.2       4.00       0.0       0.0       0.0       0.0       0.0       20.3         225       66.8       3.50       0.0       0.0       0.0       0.0       0.0       30.3         227       28.6       4.10       0.0       0.0       0.0       0.0       0.0       30.3         227       28.6       4.10       0.0       0.0       0.0       0.0       20.3         228       37.1       4.60       0.0       0.0       0.0       0.0       20.3         231       39.5       4.20       0.0       0.0       0.0       0.0       20.3         231       39.5       4.20       0.0       0.0       0.0       0.0       20.3         231       39.5       4.20       0.0       0.0       0.0       0.0       20.3         231       39.5       4.20       0.0       0.0       0.0       0.0       20.3         231 <td></td> <td></td> <td>3.50</td> <td>0.0</td> <td></td> <td></td> <td></td> <td></td>			3.50	0.0				
222         25.3         3.60         0.0         0.0         0.0         0.0         0.0         20.3           223         #1.4         *#4.30         0.0         0.0         0.0         0.0         20.3           224         #83.2         #.00         0.0         0.0         0.0         0.0         20.3           225         #66.8         3.50         0.0         0.0         0.0         0.0         30.3           226         30.5         4.60         0.0         0.0         0.0         0.0         30.3           227         22.6         4.60         0.0         0.0         0.0         0.0         20.3           227         22.6         4.10         0.0         0.0         0.0         0.0         20.3           229         28.7         3.80         0.0         0.0         0.0         0.0         20.3           231         32.7         4.10         0.0         0.0         0.0         0.0         20.3           231         32.7         4.10         0.0         0.0         0.0         0.0         20.3           231         32.7         4.50         0.0         3.42			3.60	0.0				
223       41, 0       *u.30       0.0       0.0       0.0       0.0       0.0       20 3         224       83.2       4.00       0.0       0.0       0.0       0.0       0.0       20 3         226       39.5       4.60       0.0       0.0       0.0       0.0       0.0       30 3         227       28.6       4.10       0.0       0.0       0.0       0.0       20 3         228       37.1       4.60       0.0       0.0       0.0       0.0       0.0       20 3         229       28.7       3.80       0.0       0.0       0.0       0.0       0.0       20 3         231       30.5       4.20       0.0       0.0       0.0       0.0       20 3         231       30.5       4.20       0.0       0.0       0.0       0.0       20 3         231       30.5       4.20       0.0       0.0       0.0       0.0       20 3         233       32.2       4.50       0.0       3.48       0.0       1.73       10 3         234       36.5       4.30       0.0       0.0       0.0       0.0       0.0         236			3.60	0.0				
224       83.2       4.00       0.0       0.0       0.0       0.0       20 3         225       66.8       3.50       0.0       0.0       0.0       0.0       30 3         226       39.5       4.60       0.0       0.0       0.0       0.0       30 3         227       28.6       4.10       0.0       0.0       0.0       0.0       20 3         228       37.1       4.60       0.0       0.0       0.0       0.0       0.0       20 3         229       28.7       3.80       0.0       0.0       0.0       0.0       0.0       20 3         231       39.5       4.20       0.0       0.0       0.0       0.0       20 3         231       39.5       4.20       0.0       0.0       0.0       0.0       20 3         233       32.2       4.50       0.0       3.42       0.0       0.81       10 3         233       32.2       4.50       0.0       3.42       0.0       0.81       10 3         235       68.6       4.50       0.0       0.0       0.0       0.0       60 3         236       65.8       4.40				0.0				
225       66.8       3.50       0.0       0.0       0.0       0.0       30.3       3         226       39.5       4.60       0.0       0.0       0.0       0.0       30.3       3         227       28.6       4.10       0.0       0.0       0.0       0.0       0.0       20.3         229       28.7       3.80       0.0       0.0       0.0       0.0       0.0       20.3         231       20.7       4.10       0.0       0.0       0.0       0.0       0.0       20.3         231       30.5       4.20       0.0       0.0       0.0       0.0       20.3         232       69.9       *4.40       0.0       3.18       0.0       1.73       10.3         233       32.2       4.50       0.0       3.42       0.0       0.81       10.3         234       36.5       4.30       0.0       0.0       0.0       0.0       60.3         235       68.6       4.50       0.0       0.0       0.0       0.0       0.0       20.3         237       73.8       3.60       3.14       0.0       0.0       0.0       0.0       20.3<			4.00	0.0				
226       39.5       4.60       0.0       0.0       0.0       0.0       30.3       3         227       28.6       4.10       0.0       0.0       0.0       0.0       20.3       3       228       37.1       4.60       0.0       0.0       0.0       0.0       20.3       229       28.7       3.80       0.0       0.0       0.0       0.0       20.3       23       230       24.7       4.10       0.0       0.0       0.0       0.0       20.3       23       231       39.5       4.20       0.0       0.0       0.0       0.0       20.3       3       232       69.9       *4.40       0.0       0.0       0.0       0.0       20.3       3       10.3       3			3.50	0.0				
227       28.6       4.10       0.0       0.0       0.0       0.0       20.3         228       37.1       4.60       0.0       0.0       0.0       0.0       20.3         230       28.7       3.80       0.0       0.0       0.0       0.0       20.3         231       39.5       4.20       0.0       0.0       0.0       0.0       20.3         232       69.9       *4.40       0.0       3.18       0.0       1.73       10.3         233       32.2       4.50       0.0       3.42       0.0       0.81       10.3         234       36.5       4.30       0.0       0.0       0.0       0.0       60.3         236       65.8       4.50       0.0       0.0       0.0       0.0       60.3         237       73.8       3.60       3.14       0.0       0.0       0.0       20.3         237       73.8       3.60       3.14       0.0       0.0       0.0       20.3         239       73.7       *3.70       0.0       0.0       0.0       0.0       20.3         240       88.5       4.00       0.0       0.0			4.60	0.0				
228       37.1       4.60       0.0       0.0       0.0       0.0       0.0       20.3         229       28.7       3.80       0.0       0.0       0.0       0.0       0.0       20.3         231       30.5       4.20       0.0       0.0       0.0       0.0       20.3         232       69.9       *4.40       0.0       3.18       0.0       1.73       10.3         233       32.2       4.50       0.0       3.42       0.0       0.81       10.3         234       36.5       4.30       0.0       0.0       0.0       0.0       0.0       60.3         236       65.8       4.30       0.0       0.0       0.0       0.0       0.0       60.3         236       65.8       4.50       0.0       0.0       0.0       0.0       0.0       20.3         237       73.8       3.60       3.14       0.0       0.0       0.0       20.3         237       73.8       3.60       3.14       0.0       0.0       1.14       10.3         238       71.7       5.10       0.0       0.0       0.0       0.0       20.3 <t< td=""><td></td><td></td><td>4.10</td><td>0.0</td><td></td><td></td><td></td><td></td></t<>			4.10	0.0				
224       28.7       3.80       0.0       0.0       0.0       0.0       0.0       20.3         230       24.7       4.10       0.0       0.0       0.0       0.0       20.3         231       30.5       4.20       0.0       0.0       0.0       0.0       20.3         232       69.9       *4.40       0.0       3.18       0.0       1.73       10.3         233       32.2       4.50       0.0       3.42       0.0       0.81       10.3         234       36.5       4.30       0.0       0.0       0.0       0.0       0.0       0.0         235       68.6       4.50       0.0       0.0       0.0       0.0       0.0       0.0       20.3         236       65.8       4.40       0.0       0.0       0.0       0.0       0.0       20.3         237       73.8       3.60       3.14       0.0       0.0       0.0       0.0       20.3         238       71.7       5.10       0.0       0.0       0.0       0.0       20.3         240       88.5       4.00       0.0       0.0       0.0       0.0       20.3			4.60	0.0	0.0			
230       24.7       4.10       0.0       0.0       0.0       0.0       0.0       20 3         231       39.5       4.20       0.0       0.0       0.0       0.0       20 3         232       69.9       *4.40       0.0       3.18       0.0       1.73       10 3         233       32.2       4.50       0.0       3.42       0.0       0.81       10 3         234       36.5       4.30       0.0       0.0       0.0       0.0       0.0       60 3         235       68.6       4.50       0.0       0.0       0.0       0.0       0.0       0.0       20 3         236       65.8       4.40       0.0       0.0       0.0       0.0       0.0       20 3         237       73.8       3.60       3.14       0.0       0.0       1.14       10 3         238       71.7       5.10       0.0       0.0       0.0       1.14       10 3         239       73.7       *3.70       0.0       0.0       0.0       0.0       20 3         241       27.5       3.90       2.93       2.73       0.0       0.78       10 3				0.0	0.0			
231       39.5       4.20       0.0       0.0       0.0       0.0       20.3         232       69.9       *44.40       0.0       3.18       0.0       1.73       10.3         233       32.2       4.50       0.0       0.0       0.0       0.81       10.3         234       36.5       4.30       0.0       0.0       0.0       0.0       0.0       60.3         235       68.6       4.50       0.0       0.0       0.0       0.0       0.0       0.0       20.3         236       65.8       4.40       0.0       0.0       0.0       0.0       0.0       0.0       20.3         237       73.8       3.60       3.14       0.0       0.0       1.14       10.3         238       71.7       5.10       0.0       0.0       0.0       1.14       10.3         239       73.7       *3.70       0.0       0.0       0.0       0.0       20.3         241       27.5       3.90       2.93       2.73       0.0       0.78       10.3         242       38.6       3.70       0.0       0.0       0.0       0.78       10.3				0.0	0.0			
232       69.9       *4.40       0.0       3.18       0.0       1.73       10 3         233       32.2       4.50       0.0       3.42       0.0       0.81       10 3         234       36.5       4.30       0.0       0.0       0.0       0.0       0.0       60 3         235       68.6       4.50       0.0       0.0       0.0       0.0       0.0       20 3         236       65.8       4.40       0.0       0.0       0.0       0.0       0.0       20 3         237       73.8       3.60       3.14       0.0       0.0       0.0       1.14       10 3         238       71.7       5.10       0.0       0.0       0.0       1.14       10 3         239       73.7       *3.70       0.0       0.0       0.0       0.0       20 3         240       88.5       4.00       0.0       0.0       0.0       0.0       20 3         241       27.5       3.90       2.93       2.73       0.0       0.78       10 3         242       38.6       3.70       0.0       0.0       0.0       0.0       20 3         243				0.0	0.0			
233       32.2       4.50       0.0       3.42       0.0       0.81       10.3         234       36.5       4.30       0.0       0.0       0.0       0.0       0.0       60.3         235       68.6       4.50       0.0       0.0       0.0       0.0       0.0       0.0       20.3         236       65.8       u.40       0.0       0.0       0.0       0.0       0.0       20.3         237       73.8       3.60       3.14       0.0       0.0       0.0       1.14       10.3         238       71.7       5.10       0.0       0.0       0.0       0.0       1.14       10.3         239       73.7       *3.70       0.0       0.0       0.0       0.0       20.3         240       88.5       4.00       0.0       0.0       0.0       0.0       20.3         241       27.5       3.90       2.93       2.73       0.0       0.78       10.3         242       38.6       3.70       0.0       0.0       0.0       0.0       20.3         243       35.1       5.40       0.0       0.0       0.0       0.0       20.3 <td></td> <td></td> <td></td> <td>0.0</td> <td>3.18</td> <td></td> <td></td> <td></td>				0.0	3.18			
236       36.5       4.30       0.0       0.0       0.0       0.0       0.0       60.3         235       68.6       4.50       0.0       0.0       0.0       0.0       0.0       0.0       20.3         236       65.8       4.40       0.0       0.0       0.0       0.0       0.0       20.3         237       73.8       3.60       3.14       0.0       0.0       0.0       1.14       10.3         238       71.7       5.10       0.0       0.0       0.0       0.0       0.0       20.3         240       88.5       4.00       0.0       0.0       0.0       0.0       20.3         241       27.5       3.90       2.93       2.73       0.0       0.78       10.3         242       38.6       3.70       0.0       0.0       0.0       0.0       20.3         243       35.1       5.40       0.0       4.17       0.0       1.15       10.3         245       61.6       4.50       0.0       0.0       0.0       0.0       20.3         247       71.8       2.70       0.0       0.0       0.0       0.0       20.3					3.42			
236       68.6       4.50       0.0 <td< td=""><td></td><td></td><td></td><td></td><td>0.0</td><td>0.0</td><td></td><td></td></td<>					0.0	0.0		
237       73.8       3.60       3.14       9.0       0.0       0.0       1.14       10 3         238       71.7       5.10       0.0       9.0       0.0       0.0       0.0       20 3         239       73.7       *3.70       0.0       9.0       0.0       0.0       20 3         240       88.5       4.00       0.0       0.0       0.0       0.0       20 3         241       27.5       3.90       2.93       2.73       0.0       0.78       10 3         242       38.6       3.70       0.0       0.0       0.0       0.0       20 3         243       35.1       5.40       0.0       4.17       0.0       1.15       10 3         245       61.6       4.50       0.0       0.0       0.0       0.0       20 3         247       71.8       2.70       0.0       0.0       0.0       0.0       20 3         248       85.2       4.00       0.0       0.0       0.0       0.0       20 3         249       83.4       0.0       0.0       0.0       0.0       0.0       20 3         240       83.4       0.0 <t< td=""><td></td><td></td><td></td><td></td><td>0.0</td><td>0.0</td><td></td><td></td></t<>					0.0	0.0		
237       73.8       3.60       3.14       0.0       0.0       1.14       10 3         238       71.7       5.10       0.0       0.0       0.0       0.0       0.0       20 3         239       73.7       *3.70       0.0       0.0       0.0       0.0       0.0       20 3         240       88.5       4.00       0.0       0.0       0.0       0.0       0.0       20 3         241       27.5       3.90       2.93       2.73       0.0       0.78       10 3         242       38.6       3.70       0.0       0.0       0.0       0.0       0.78       10 3         243       35.1       5.40       0.0       0.0       0.0       0.0       0.0       20 3         243       35.1       5.40       0.0       0.0       0.0       0.0       20 3         245       61.6       4.50       0.0       0.0       0.0       0.0       20 3         248       85.2       4.00       0.0       0.0       0.0       0.0       20 3         249       83.4       0.0       0.0       0.0       0.0       0.0       20 3					0.0	0.0		
238       71.7       5.10       0.0       0.0       0.0       0.0       0.0       20 3         239       73.7       *3.70       0.0       0.0       0.0       0.0       0.0       20 3         240       88.5       4.00       0.0       0.0       0.0       0.0       0.0       20 3         241       27.5       3.90       2.93       2.73       0.0       0.78       10 3         242       38.6       3.70       0.0       0.0       0.0       0.0       0.0       20 3         243       35.1       5.40       0.0       0.0       0.0       0.0       0.0       20 3         245       61.6       4.50       0.0       0.0       0.0       0.0       1.15       10 3         247       71.8       2.70       0.0       0.0       0.0       0.0       20 3         248       85.2       4.00       0.0       0.0       0.0       0.0       20 3         249       83.4       0.0       0.0       0.0       0.0       0.0       20 3         250       79.6       4.30       0.0       0.0       0.0       0.0       0.0       20					0.0	0.0		
240       88.5       4.00       0.0       0.0       0.0       0.0       0.0       20.3         241       27.5       3.90       2.93       2.73       0.0       0.78       10.3         242       38.6       3.70       0.0       0.0       0.0       0.0       0.0       20.3         243       35.1       5.40       0.0       4.17       0.0       1.15       10.3         245       61.6       4.50       0.0       0.0       0.0       0.0       20.3         247       71.8       2.70       0.0       0.0       0.0       0.0       20.3         248       85.2       4.00       0.0       0.0       0.0       0.0       0.0       20.3         249       83.4       0.0       0.0       0.0       0.0       0.0       0.0       20.3         250       79.6       4.30       0.0       0.0       0.0       0.0       0.0       20.3         251       33.0       4.20       0.0       0.0       0.0       0.0       0.0       20.3         253       73.4       3.80       0.0       0.0       0.0       0.0       0.0       20.					<b>0.0</b>	0.0	0.0	
241       27.5       3.90       2.93       2.73       0.0       0.78       10 3         242       38.6       3.70       0.0       0.0       0.0       0.0       0.0       20 3         243       35.1       5.40       0.0       4.17       0.0       1.15       10 3         245       61.6       4.50       0.0       0.0       0.0       0.0       0.0       20 3         247       71.8       2.70       0.0       0.0       0.0       0.0       0.0       20 3         248       85.2       4.00       0.0       0.0       0.0       0.0       20 3         249       83.4       0.0       0.0       0.0       0.0       0.0       20 3         250       79.6       4.30       0.0       0.0       0.0       0.0       20 3         251       33.0       4.20       0.0       0.0       0.0       0.0       20 3         252       32.6       4.00       0.0       0.0       0.0       0.0       20 3         254       38.3       4.20       0.0       3.18       0.0       0.68       10 3          255       85.5						0.0	0.0	
242       38.6       3.70       0.0       0.0       0.0       0.78       10 3         243       35.1       5.40       0.0       4.17       0.0       1.15       10 3         245       61.6       4.50       0.0       0.0       0.0       0.0       0.0       20 3         247       71.8       2.70       0.0       0.0       0.0       0.0       0.0       20 3         248       85.2       4.00       0.0       0.0       0.0       0.0       0.0       20 3         249       83.4       0.0       0.0       0.0       0.0       0.0       0.0       20 3         250       79.6       4.30       0.0       0.0       0.0       0.0       0.0       20 3         251       33.0       4.20       0.0       0.0       0.0       0.0       0.0       20 3         252       32.6       4.00       0.0       0.0       0.0       0.0       20 3         254       38.3       4.20       0.0       3.18       0.0       0.68       10 3						0.0	0.0	20 3
243       38.5       3.70       0.0       0.0       0.0       0.0       0.0       20.3         243       35.1       5.40       0.0       4.17       0.0       1.15       10.3         245       61.6       4.50       0.0       0.0       0.0       0.0       0.0       20.3         247       71.8       2.70       0.0       0.0       0.0       0.0       0.0       20.3         248       85.2       4.00       0.0       0.0       0.0       0.0       0.0       20.3         249       83.4       0.0       0.0       0.0       0.0       0.0       0.0       20.3         250       79.6       4.30       0.0       0.0       0.0       0.0       0.0       20.3         251       33.0       4.20       0.0       0.0       0.0       0.0       0.0       20.3         252       32.6       4.00       0.0       0.0       0.0       0.0       0.0       20.3         253       73.4       3.80       0.0       0.0       0.0       0.0       0.68       10.3         254       38.3       4.20       0.0       3.18       0.0<						0.0	0.78	10 3
245       61.6       4.50       0.0       0.0       0.0       0.0       0.0       20.3         247       71.8       2.70       0.0       0.0       0.0       0.0       0.0       20.3         248       85.2       4.00       0.0       0.0       0.0       0.0       0.0       20.3         240       83.4       0.0       0.0       0.0       0.0       0.0       0.0       20.3         250       79.6       4.30       0.0       0.0       0.0       0.0       0.0       20.3         251       33.0       4.20       0.0       0.0       0.0       0.0       20.3         252       32.6       4.00       0.0       0.0       0.0       0.0       20.3         253       73.4       3.80       0.0       0.0       0.0       0.0       0.0       20.3         254       38.3       4.20       0.0       3.18       0.0       0.68       10.3         255       85.5       44.60       0.0       3.18       0.0       0.68       10.3						0.0	0.0	
247       71.8       2.70       0.0       0.0       0.0       0.0       20.3         248       85.2       4.00       0.0       0.0       0.0       0.0       0.0       20.3         249       83.4       0.0       0.0       0.0       0.0       0.0       0.0       20.3         250       79.6       4.30       0.0       0.0       0.0       0.0       20.3         251       33.0       4.20       0.0       0.0       0.0       0.0       20.3         252       32.6       4.00       0.0       0.0       0.0       0.0       20.3         253       73.4       3.80       0.0       0.0       0.0       0.0       0.0         254       38.3       4.20       0.0       3.18       0.0       0.68       10.3						0.0	1.15	10 3
248       95.2       4.00       0.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>0.0</td><td>0.0</td><td>20 3</td></td<>						0.0	0.0	20 3
249     83.4     0.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0</td> <td>0.0</td> <td>20 3</td>						0.0	0.0	20 3
250     79.6     4.30     0.0     0.0     0.0     0.0     0.0     20.3       251     33.0     4.20     0.0     0.0     0.0     0.0     0.0     20.3       252     32.6     4.00     0.0     0.0     0.0     0.0     20.3       253     73.4     3.80     0.0     0.0     0.0     0.0     20.3       254     38.3     4.20     0.0     3.18     0.0     0.68     10.3       255     85.5     *4.60     0.0     3.40     0.0     0.68     10.3						0.0	0.0	20 3
251 33.0 4.20 0.0 0.0 0.0 0.0 20 3 252 32.6 4.00 0.0 0.0 0.0 0.0 20 3 253 73.4 3.80 0.0 0.0 0.0 0.0 20 3 254 38.3 4.20 0.0 3.18 0.0 0.68 10 3						0.0	0.0	20 3
252 32.6 4.00 0.0 0.0 0.0 0.0 20 3 253 73.4 3.80 0.0 0.0 0.0 0.0 20 3 254 38.3 4.20 0.0 3.18 0.0 0.68 10 3			-				0.0	20 3
253 73.4 3.80 0.0 0.0 0.0 0.0 20 3 254 38.3 4.20 0.0 3.18 0.0 0.68 10 3								
254 38.3 4.20 0.0 3.18 0.0 0.68 10 3								20 3
255 85 5 40 60 0 3 00 0 0 0 0								20 3
3.49 0.0 1.87 10 3								10 3
	ι.	(1 F • 3	*14 . P) (1	9.9	3.49	0.0	1.87	10 3

#### FATRRANKS, ALASKA

1	EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
	256	74.1	3.50	3.43	0.0	0.0	2.93	10 3
•	257	31.0	3.30	0.0	0.0	0.0	0.0	20 3
	258	36.6	3.00	0.0	0.0	0.0	0.0	20 3
1	259	27.5	3.60	0.0	0.0	0.0	0.0	20 3
	260	59.9	5.50	3.54	3.41	0.0	0.0	10 3
	261	38.8	3.70	0.0	0.0	0.0	0.0	20 3
	262	76.3	4.90	4.30	0.0	0.0	0.31	10 3
1	263	64.0	3.80	0.0	0.0	0.0	0.0	30 3
	264	24.9	3.80	3.25	0.0	0.0	0.0	10 3
	265	72.9	4.20	0.0	0.0	0.0	0.0	30 3
	266	23.4	3.60	3.31	3.42	0.0	0.68	10 3
47	267	74.4	4.10	0.0	0.0	0.0	0.0	20 3
_	268	36.5	4.10	0.0	0.0	0.0	0.0	20 3
No.	269	28.4	3.80	0.0	0.0	0.0	0.0	20 3
44	270	85.7	4.10	0.0	0.0	0.0	0.0	20 3
	271	32.1	3.80	0.0	0.0	0.0	0.0	20 3
11	272	73.9	4.00	0.0	0.0	0.0	0.0	20 3
National Association of the Control	273	75.7	3.80	0.0	0.0	0.0	0.0	20 3
	274	24.6	4.00	0.0	0.0	0.0	0.0	20 3
87	275	73.4	4.10	0.0	0.0	0.0	0.0	20 3
	276	85.7	3.70	0.0	0.0	0.0	0.0	20 3
2.4	277	27.4	3.70	0.0	0.0	0.0	0.0	20 3
	278	75.A	5.40	0.0	0.0	0.0	0.0	30 3
- Annual and a second	279	53.6	3.70	0.0	0.0	0.0	0.0	20 3
L	280	71.9	3.70	0.0	0.0	0.0	0.0	20 3
	281	76.4	5.30	0.0	0.0	0.0	0.0	20 3
[]	282	76.1	3.70	0.0	0.0	0.0	0.0	30 3
	283	61.7	3.70	0.0	0.0	0.0	0.0	20 3
•	284	97.3	3.60	0.0	0.0	0.0	0.0	20 3
277	285	77.3	3.50	0.0	0.0	0.0	0.0	20 3
	286	32.2	4.50	3.67	3.80	0.0	1.66	10 3
2.1	287	86.7	3.80	0.0	0.0	0.0	0.0	20 3
	288	71.3	3.40	0.0	0.0	0.0	0.0	20 3
n	289	74.9	3.60	0.0	0.0	0.0	0.0	20 3
U	290	70.0	3.50	0.0	0.0	0.0	0.0	30 3
	291	38.1	4.10	0.0	0.0	0.0	0.0	30 3
$\Gamma$	292	32.9	5.20	4.00	3.39	0.0	1.67	10 3
	293	85.6	4.00	0.0	0.0	0.0	0.0	30 3
L	294	70.9	5.20	4.51	0.0	4.12	0.74	10 3
	295	85.5	3.90	0.0	0.0	0.0	0.0	20 3
	296	77.5	3.50	0.0	0.0	0.0	0.0	20 3
U	297	39.8	5.00	0.0	3.92	0.0	0.90	10 3
	298	61.8	3.60	3.71	0.0	0.0	0.0	10 3
$\cap$	299	24.3	3.60	3.20	2.53	0.0	0.0	10 3
	300	31.5	4.70	3.48	3.28	0.0	0.29	10 3
	301	31.8	3.70	0.0	0.0	0.0	0.0	20 3
	302	69.9	3.20	0.0	0.0	0.0	0.0	20 3
	303	72.3	3.90	0.0	0.0	0.0	0.0	50 3
Val.	304	31.7	3.60	0.0	0.0	0.0	0.0	20 3

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
305 307 308 309	40.7 35.4 82.4 68.6	4.40 4.00 3.40 3.40	0.0 0.0 0.0	0.0 0.0 3.90 0.0	0.0 0.0 0.0	0.0 0.0 0.92 0.0	30 3 20 3 10 3 20 3

APPENDIX II-F
BASIC DATA FOR
TOLEDO, SPAIN (TLO)

TOLEDO, SPAIN

EVENT NO.	DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LP RATIO	COMMENT
2	87.7	4.60	0.0	0.0	0.0	0.0	50 4
3	89.1	4.00	0.0	0.0	0.0	0.0	20 4
4	90.0	4.00	0.0	0.0	0.0	0.0	50 4
5	19.3	4.20	0.0	0.0	0.0	0.0	20 4
6	63.8	5.20	4.13	3.53	3.38	1.83	10 4
7	87.4	4.80	3.64	0.0	0.0	0.58	10 4
Я	87.0	4.50	0.0	0.0	0.0	0.0	20 4
9	74.5	3.40	0.0	0.0	0.0	0.0	20 4
10	83.7	4.30	0.0	0.0	0.0	0.0	20 4
11	100.0	4.80	0.0	0.0	0.0	0.0	20 4
12	84.0	4.40	0.0	0.0	0.0	0.0	20 4
1.3	100.1	*4.60	4.10	3.72	3.69	2.56	10 4
14	91.6	3.90	4.08	3.64	0.0	1.09	10 4
15	63.2	3.80	0.0	0.0	0.0	0.0	20 4
16	92.4	4.50	0.0	0.0	0.0	0.0	20 4
17	16.5	4.00	3.17	2.9 <b>7</b>	0.0	1.24	10 4
18	58.1	4.50	0.0	0.0	0.0	0.0	20 4
19	83.4	4.00	4.05	0.0	0.0	0.37	10 4
20	82.0	3.90	0.0	0.0	0.0	0.0	20 4
21	56.3	4.70	3.23	0.0	0.0	2.54	10 4
22	100.1	4.70	0.0	0.0	0.0	0.0	20 4
2.3	44.9	5.20	3.42	0.0	0.0	0.0	10 4
24	57.7	3.90	0.0	0.0	0.0	0.0	30 4
25	36.2	4.20	0.0	0.0	0.0	0.0	20 4
26	98.5	4.70	6.31	$0.\overline{0}$	0.0	2.01	30 4
27	97.7	4.60	0.0	0.0	0.0	0.0	30 4
28	85.2	3.60	0.0	0.0	0.0	0.0	20 4
29	R3.9	4.30	0.0	0.0	0.0	0.0	20 4
30	91.5	3.80	0.0	0.0	0.0	0.0	20 4
31	100.2	5.00	4.11	0.0	0.0	0.87	10 4
12	83.q	4.40	0.0	0.0	0.0	0.0	20 4
33	85.2	3.90	0.0	0.0	0.0	0.0	20 4
34	93.1	4.00	0.0	0.0	0.0	0.0	20 4
35	26.4	4.40	4.12 0.0	4.26 3.33	4.09	0.94 0.83	10 4
36,	22.3	4.90		3.78	0.0	0.49	10 4
37	84.0	4.80		0.0	3.55	1.00	10 4
38	84.1	5.30	4.89	0.0	4.78	0.0	10 4
39	75.6	3.90	0.0	0.0	0.0	0.0	20 4
40	72.6 41.1	5.10	0.0	0.0	0.0	0.0	20 4
41	88.7		0.0	0.0	0.0	0.0	20 4
42	72.3		0.0		0.0	1.29	10 4
43 44	60.9			0.0	0.0	0.0	20 4
45	62.0		0.0		0.0	0.0	20 4
46	83.9		0.0	0.0		0.0	20 4
45	83.9		0.0	0.0	0.0	0.0	20 4
48	24.8		0.0	0.0			50 4
49	92.1		0.0		0.0		20 4
50	40.6	4.90	0.0				10 4

### TOLEDO, SPATN

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SFC	LQ/LR RATIO	COMMENT
51	10.0	4.10	0.0	0.0	0.0	0.0	20 "
52	24.5	4.80	3.35	3.41	0.0	0.0	20 4
5.3	36.5	3.80	0.0	0.0	0.0	0.0	10 4
54	87.7	4.20	0.0	0.0	0.0	0.0	20 4
55	26.4	4.40	0.0	0.0	0.0	0.0	20 4
56	86.8	4.20	0.0	0.0	0.0	0.0	20 4 20 4
57	83.7	4.00	0.0	0.0	0.7	0.0	30 4
58	87.1	4.00	ň.ň	0.0	0.0	0.0	30 4
59	85.3	4.60	0.0	0.0	0.0	0.0	20 4
60	13.5	*4.20	0.0	0.0	0.0	0.0	20 4
6.1	100.0	4.80	0.0	0.0	0.0	0.0	20 4
62	100.3	4.60	0.0	0.0	0.0	0.0	20 4
6.3	13.5	*3.70	0.0	0.0	0.0	0.0	30 4
65	83.4	3.80	0.0	0.0	0.0	0.0	20 4
66	89.5	4.10	0.0	0.0	0.0	0.0	20 4
67	87.8	3.20	0.0	0.0	0.0	0.0	20 4
68	24.0	4.00	0.0	0.0	0.0	0.0	20 4
69	89.5	4.80	0.0	0.0	0.0	0.0	20 4
70	84.2	3.80	0.0	0.0	0.0	0.0	20 4
71	83.7	3.80	0.0	3.15	0.0	1.69	10 4
72	98.4	4.40	0.0	0.0	0.0	0.0	20 11
73	58.9	*4.10	0.0	3.79	0.0	0.0	10 4
74	50.8	4.00	0.0	0.0	0.0	0.0	20 4
75	62.3	4.50	0.0	0.0	0.0	0.0	20 4
76	59.0	4.40	0.0	3.19	0.0	0.0	10 4
77	87.9	4.00	0.0	0.0	0.0	0.0	20 4
<b>7</b> 8	89.3	3.80	0.0	0.0	0.0	0.0	20 4
<b>7</b> 9	62.6	4.70	0.0	0.0	0.0	0.0	20 4
80	54.3	3.90	0.0	0.0	0.0	0.0	20 4
8 1	84.6	3.90	3.71	3.27	0.0	4.31	10 4
82	83.7	4.10	0.0	0.0	0.0	0.0	20 4
83	79.4	1.60	0.0	0.0	0.0	0.0	20 4
84	83.7	3.70	0.0	0.0	0.0	0.0	20 4
85	89.4	3.60	0.0	0.0	0.0	0.0	20 4
86	88.4	3.60	0.0	0.0	0.0	0.0	20 4
87	19.5	4.60	3.61	3.45	0.0	1.00	10 4
88	39.4	5.10	4.42	0.0	<b>3.7</b> 2	0.87	10 4
89	86.8	4.50	0.0	4.32	0.0	0.71	10 4
90	13.5	*4.50	3.17	0.0	0.0	6.58	10 4
92	13.4	4.80	0.0	0.0	0.0	0.0	20 /1
93		4.80	0.0	0.0	0.0	0.0	21) 11
94	13.4	4.40	3.79	3.00	2.90	1.27	10 /1
95	70.1	5.20	3.56	0.0	0.0	1.95	60 n
96	54.4	4.50	0.0	0.0	0.0	0.0	50 u
97	13.5	*4.10	2.82	0.0	0.0	6.38	10 0
98	13.5	*4.30	0.0	0.0	0.0	0.0	30 u
99	13.5	*4.10	0.0	0.0	0.0	0.0	30 0
100	13.7	3.60	2.78	0.0	0.0	2.86	10 4
101	13.5	*4.30	0.0	0.0	0.0	0.0	30 4

TOLEDO, SPAIN

EVENT NO.	DISTANCE (DFGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
102	13.7	*3.70	0.0	0.0	0.0	0.0	20 4
103	13.6	*4.00	0.0	0.0	0.0	0.0	
104	13.5	*4.30	3.76	2.85	0.0	0.50	20 4 10 4
105	13.5	*4.30	3.87	0.0	0.0	1.24	10 4
106	13.4	*4.40	3.40	0.0	0.0	2.41	10 4
107	74.0	4.10	0.0	0.0	0.0	0.0	20 4
108	62.4	4.70	0.0	0.0	0.0	0.0	20 4
109	58.9	4.30	0.0	0.0	0.0	0.0	20 4
110	13.4	*3.80	0.0	0.0	0.0	0.0	30 4
111	86.8	4.80	0.0	0.0	0.0	0.0	20 4
112	102.4	5.70	5.14	0.0	4.43	1.28	10 4
113	13.5	*4.30	0.0	0.0	0.0	0.0	50 4
114	100.1	4.80	0.0	3.80	0.0	0.99	10 4
115	45.6	4.30	0.0	0.0	0.0	0.0	20 4
116	56.5	5.50	0.0	0.0	0.0	0.0	50 4
117	45.5	4.50	0.0	0.0	0.0	0.0	30 4
118	45.6	3.90	0.0	0.0	0.0	0.0	20 4
119	45.6	4.10	0.0	3.62	0.0	0.51	10 4
120	60.1	4.90	0.0	0.0	0.0	0.0	50 4
122	86.8	3.90	0.0	0.0	0.0	0.0	20 4
12.3	83.4	4.60	0.0	4.09	0.0	0.93	10 4
124	92.6	3.80	0.0	0.0	0.0	0.0	20 4
125	22.0	4.50	3.44	3.23	0.0	3.12	10 4
126	84.5	3.90	0.0	0.0	0.0	0.0	20 4
278	25.6	5.40	4.71	4.39	0.0	0.52	10 4
279	88.9	3.70	0.0	0.0	0.0	0.0	20 4
280	57.2	3.70	0.0	0.0	0.0	0.0	20 4
281	70.0	5.30	0.0	3.25	0.0	0.0	10 4
282	26.1	3.70	0.0	0.0	0.0	0.0	30 4
283	77.9	3.70	0.0	0.0	0.0	0.0	20 4
284	54.2	3.60	0.0	0.0	0.0	0.0	20 4
285	58.9	3.50	0.0	0.0	0.0	0.0	20 4
286 287	85.6 53.4	4.50	0.0	4.45	0.0	1.27	10 4
288	52.1	3.80	0.0	0.0	0.0	0.0	20 4
289	65.3 79.5	3.40 3.60	0.0	0.0	0.0	0.0	50 4
290	64.1	3.50	0.0	0.0	0.0	0.0	20 4
291	94.0	4. 10	0.0	0.0	0.0	0.0	30 4
292	89.4	5.20	0.0	0.0	0.0	0.0	30 4
293	49.0	4.00	0.0	0.0	0.0	0.0	20 4
294	54.7	5.20	4.21	0.0 0.0	0.0	0.0	30 4
295	48.7	3.90	0.0		3.45	0.37	10 4
296	62.4	3.50	0.0	0.0	0.0	0.0	20 4
297	88.6	5.00	0.0	0.0	0.0	0.0	20 4
298	59.1	3.60	0.0	0.0	0.0	0.0 0.0	30 4
299	82.5	3.60	0.0	0.0	0.0	0.0	20 4
300	88.0	4.70	0.0	0.0	0.0	0.0	20 4
301	83.5	3.70	0.0	0.0	0.0	0.0	20 4 20 4
302	55.9	3.20	0.0	0.0	0.0	0.0	20 4
			_ • •	0 0		<b>0</b> • <b>0</b>	20 4

# TOLEDO, SPAIN

To distribute the

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATTO	COMMENT
303	31.5	3.90	0.0	0.0	0.0	0.0	20 4
304	89.9	3.60	0.0	0.0	0.0	0.0	20 4
305	92.2	4.40	0.0	0.0	0.0	0.0	30 4
306	55.9	3.90	0.0	0.0	0.0	0.0	20 4
307	91.0	4.00	0.0	0.0	_	0.0	20 4
308	53.0	3.40	3.32	0.0	0.0	2.46	10 4
309	61.8	3.40	0.0	0.0	0,0	0.0	20 4
354	58.1	4.50	3.56	3.29		0.0	10 4
355	93.9	3.70	0.0	0.0		0.0	20 4
356	40.6	4.00	0.0	0.0	0.0	0.0	20 4
357	86.1	3.30	0.0	0.0	0.0	0.0	30 4
358	89.6	4.00	0.0	0.0	0.0	0.0	20 4
359	90.5	4.30	0.0	0.0	0.0	0.0	50 4
360	92.4	3.70	0.0	0.0	0.0	0.0	20 4
361	40.5	5.40	4.42	4.35	3.68	3.67	10 4
362	40.4	5.10	0.0	0.0	0.0	0.0	30 4
363	86.4	3.70	0.0	0.0	0.0	0.0	30 4
364	40.5	5.10	3.81	3.70	3.12	0.0	30 4
365	84.4	3.80	0.0	0.0	0.0	0.0	20 4
366	42.1	4.70	3.41	3.38	2.74	0.0	30 4
369	45.7	3.50	0.0	2.66	2.19	0.0	10 4
370	50.7	3.60	0.0	0.0	0.0	0.0	30 4
372	13.5	*4.30	3.01	2.97	0.0	0.0	10 4
373	20.3	4.90	3.66	3.67	0.0	0.0	10 4
374	85.9	3.50	3.50	3.49		0.0	10 4
375	24.8	3.30	2.93	2.98	2.52	0.0	10 4
376	83.3	4.10	0.0	0.0	0.0	0.0	20 4
377	56.2	4.50	0.0	0.0	0.0	0.0	30 4
378	85.7	3.60	0.0	0.0	0.0	0.0	20 4
379	39.9	3.70	0.0	0.0	0.0	0.0	30 4
380	15.7	*4.30	2.78	0.0	0.0	0.0	10 4
381	92.5	4.60	0.0	3.54	0.0	0.0	30 4
382	67.5	4.30	3.44	3.36	2.68	0.0	10 4
383	90.0	3.90	0.0	0.0	0.0	0.0	30 4
384	57.0	4.30	0.0	0.0		0.0	20 4
385	26.9	4.40	2.60	2.54		0.0	10 4
386	85.5	5.00	0.0	0.0	0.0	0.0	30 4
387	93.5	4.00	0.0	0.0	0.0	0.0	2 4
388	93.5	4.50	3.54	3.13	2.90	3.34	10 4
389	90.5	4.10	0.0	0.0	0.0	0.0	20 4
403	59.8	3.70	0.0	0.0	0.0	0.0	20 4
404	48.7	3.50	0.0	0.0	0.0	0.0	30 4
405	16.0	*4.50	3.28	2.63	2.38	5.49	10 4
408	58.2	3.40	0.0	0.0	0.0	0.0	20 4
409	15.3	*3.70	0.0	0.0	0.0	0.0	20 4
410	56.4	4.70	3.60	3.49		0.0	10 4
411	85.1	4.10	0.0	0.0	0.0		20 4
412	100.0	5.00	4.00	3.80	3.16	0.0	10 4
413	82.9	3.60	0.0	0.0	0.0	0.0	30 4

TOLEDO, SPATN

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
414	56.1	3.70	0.0	0.0	0.0	0.0	20 4
415	52.3	4.00	3.03	3.08	2.68	0.0	30 4
416	60.1	5.50	3.66	3.40	3.32	0.0	30 4
417	35.0	3.80	0.0	0.0	0.0	0.0	30 4
418	81.0	4.40	0.0	0.0	0.0	0.0	20 4
4 19	60.1	*5.20	3.27	3.18	2.73	0.0	10 4
450	36.7	3.50	0.0	0.0	0.0	0.0	20 4
424	83.7	4.20	0.0	0.0	0.0	0.0	20 4
425	84.6	3.40	0.0	0.0	0.0	0.0	30 4
426	28.8	4.30	0.0	0.0	0.0	0.0	20 4
428	86.2	3.90	0.0	0.0	0.0	0.0	20 4
429	47.0	3.90	0.0	0.0	0.0	0.0	30 4
430	49.4	3.70	0.0	0.0	0.0	0.0	20 4
431	56.4	*4.60	0.0	0.0	0.0	0.0	20 4
432	51.3	4.40	0.0	0.0	0.0	0.0	30 4
433	98.0	4.90	4.38	4.00	3.42	1.03	10 4
435	85.7	3.40	0.0	0.0	0.0	0.0	20 4
436	45.2	5.40	4.83	4.42	4.06	1.22	10 4
437	45.1	4.60	0.0	0.0	0.0	0.0	30 4
438	45.2	5.00	3.67	3.33	3.00	0.0	10 4
439	57.s	4.30	0.0	0.0	0.0	0.0	30 4
440	47.0	4.00	0.0	0.0	0.0	0.0	20 4
441	42.2	4.00	0.0	0.0	0.0	0.0	30 4
442	45.4	5.10	0.0	0.0	0.0	0.0	30 4
443	89.4	4.00	0.0	0.0	0.0	0.0	20 4
444	28.0	3.40	0.0	0.0	0.0	0.0	20 4
445	48.7	3.90	0.0	0.0	0.0	0.0	30 4
446	94.5	4.40	0.0	0.0	0.0	0.0	50 4
447	88.1	3.60	0.9	0.0	0.0	0.0	20 4
443	48.7	3.80	0.0	0.0	0.0	0.0	20 4
449	60.2	4.60	3.94	3.60	2.91	0.64	10 4
450	63.5	3.50	0.0	0.0	0.0	0.0	30 4
451	65.0	4.30	0.0	0.0	0.0	0.0	30 4
452	43.3	3.40	0.0	0.0	0.0	0.0	30 4
453	45.7	4.00	0.0	0.0	0.0	0.0	20 4
4511	20.2	4.70	0.0	0.0	0.0	0.0	30 4
455	47.7	4.10	0.0	0.0	0.0	0.0	30 4
1155	56.1	4.40	3.17	2.99	0.0	0.0	10 4
457	50.0	3.10	0.0	0.0	0.0	0.0	20 4
459	59.4	11.30	0.0	0.0	0.0	0.0	30 4
459	91.9	3.90	0.0	0.0	0.0	0.0	30 U
けとし	83.5	-	0.0	0.0	0.0	0.0	30 4
461	85.8	5.00	4.67	4.45	3.81	0.0	10 4
467	90.8	3.70	0.0	0.0	0.0	0.0	20 4
463	20.9	4.70	0.0	0.0	., • •	0.0	20 4
464	91.9	11.30	4.07	0.0	0.0	0.0	10 4
465	39.4	4.20	0.0	0.0	0.0	0.0	20 4
466	18.5	4.00	0.0	2.55	0.0	0.0	10 4
467	100.1	4.10	0.0	0.0	0.0	0.0	20 4

TOLEDO, SPATN

EVENT NO.	DISTANCE (DEGREES)	MB	MS	MS	MS	LQ/I.R	COMMENT
	(OEGRES)		T=20SEC	T=30SEC	T=40SEC	PATIO	
468	97.6	3.80	0.0	0.0	0.0	0.0	20 4
469	85.7	4.10	0.0	0.0	0.0	0.0	20 4
470	65.5	4.70	0.0	0.0	0.0	0.0	50 4
471	57.7	4.20	0.0	0.0	0.0	0.0	30 4
472	89.7	5.20	3.96	3.88	3.33	1.53	10 4
47.3	84.5	3.60	0.0	0.0	0.0	0.0	20 4
474	51.3	3.70	0.0	0.0	0.0	0.0	20 4
475	38.9	4.70	3.91	3.23	2.67	3.00	10 4
476	89.0	5.20	4.12	3.78	3.20	0.0	10 4
477	60.4	3.50	0.0	0.0	0.0	0.0	20 4
478	84.9	4.00	0.0	0.0	0.0	0.0	20 4
479	20.4	4.10	3.29	2.59	0.0	0.0	10 4
480	89.0	3.70	0.0	0.0	0.0	0.0	20 4
481	72.8	3.90	0.0	0.0	0.0	0.0	20 4
482	92.9	4.20	0.0	0.0	0.0	0.0	20 4
483	55.6	3.70	0.0	0.0	0.0	0.0	20 4
484	13.5	4.40	0.0	0.0	0.0	0.0	
485	100.9	3.80	0.0	0.0	0.0	0.0	20 11
486	27.7	3.90	6.0	0.0	0.0	0.0	20 4
487	45.2	4.40	0.0	0.0	0.0	0.0	20 4
488	45.4	3.90	0.0	0.0	0.0	0.0	20 4
489	45.4	3.40	0.0	0.0	0.0	0.0	20 4
490	99.1	3.90	0.0	0.0	0.0		20 #
491	59.0	3.80	0.0	0.0	0.0	0.0	20 4
492	100.3	5.10	4.09	3.77	3.19	1.37	20 4
493	90.5	4.40	3.12	3.03	2.79	0.0	10 4
494	85.7	3.70	0.0	0.0	0.0		10 4
495	90.8	3.50	0.0	0.0	0.0	0.0	20 4
496	76.5	5.20	4.75	4.21	3.80	0.0	50 It
497	36.3	4.90	4.43	4.31	3.97	2.05	10 4
498	76.4	4.70	0.0	0.0	0.0	0.0	10 11
499	98.6	4.60	3.57	3,43	2.75	0.93	20 4
500	92.9	3.70	0.0	0.0	0.0	0.93	10 4
501	85.1	4.20	0.0	0.0	0.0		50 4
502	83.5	3.90	0.0	0.0	0.0	0.0	20 4
503	87.8	4.20	0.0	3.13	0.0	0.0	30 11
504	27.6	3.90	0.0	0.0	0.0	0.0	10 4
505	84.1	5.30	0.0	3.74	3.16	2.26	20 4
506	92.4	3.30	0.0	0.0	0.0		10_11
508	93.6	4.10	3.87	3.67	2.73	0.0	20 4
509	84.0	4.50	0.0	0.0	0.0	0.0	10 4
510	60.2	4.00	0.0	0.0	0.0	0.0	20 4
511	48.5	3.70	0.0	0.0		0.0	30 11
513	91.5	5.00	4.07	3.82	0.0 3.15	0.0	20 4
514	87.3	4.20	0.0	0.0		0.0	10 4
515	82.8	4.30	0.0	0.0	0.0	0.0	20 11
516	55.9	3.60	0.0	0.0		0.0	20 4
517	76.0	3.90	0.0	0.0	0.0	0.0	30 11
518	45.9	4.30	0.0	0.0	0.0	0.0	20 4 30 4

TOLEDO, SPAIN

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATTO	COMMENT
521	30.3	4.60	0.0	3.39	2.98	0.0	10 4
5 <b>2</b> 2	74.3	5.50	5.11	4.86	3.87	0.0	10 4
523	72.4	4.70	0.0	0.0	0.0	0.0	20 4
524	23.5	3.90	0.0	0.0	0.0	0.0	20 4
525	74.2	3.60	0.0	0.0	0.0	0.0	20 4
526	81.1	3.70	0.0	0.0	0.0	0.0	30 4
527	33.6	4.40	2.99	3.09	0.0	0.0	10 4
528	81.4	4.00	0.0	0.0	0.0	0.0	20 4
529	64.3	4.80	0.0	0.0	0.0	0.0	20 4
530	19.6	4.50	3.55	3.24	0.0	0.0	10 4
537	25.9	3.80	0.0	0.0	0.0	0.0	20 4
538	57.3	3.80	0.0	0.0	0.0	0.0	20 4
539 540	89.2	4.80	0.0	0.0	0.0	0.0	20 4
541	21.6	4.40	9.0	0.0	0.0	0.0	30 4
542	89.2 54.6	5.10	0.0	0.0	0.0	0.0	. 30 4
543	100.5	4.00	0.0	0.0	0.0	0.0	20 4
544	81.5	4.90	0.0	0.0	0.0	0.0	30 4
545	23.5	3.50	0.0	0.0	0.0	0.0	20 4
546	83.3	3.60	0.0	0.0	0.0	0.0	20 4
547	98.7	4.80 4.60	0.0	0.0	0.0	0.0	20 4
548	45.7	3.60	0.0	0.0	0.0	0.0	20 4
549	98.6	3.70	0.0	0.0	0.0	0.0	20 4
550	105.6	4.10	0.0 0.0	0.0	0.0	0.0	30 4
551	29.6	3.70	0.0	0.0	0.0	0.0	23 4
552	57.5	3.70	0.0	0.0	0.0	0.0	20 4
553	58.2	3.80	0.0	0.0	0.0	0.0	20 4
554	31.1	4.50	0.0	3.05	0.0 3.06	0.0	20 4
555	22.7	0.0	0.0	0.0	0.0	1.25	10 4
556	92.8	4.00	0.0	0.0	0.0	0.0 0.0	10 4
557	50.9	4.70	0.0	3.84	0.0	0.0	20 4
558	83.4	5.60	5.11	4.63	4.12	0.0	13 4 10 4
559	83.4	5.00	5.41	4.88	0.0	0.0	13 4
560	51.0	4.20	0.0	0.0	0.0	0.0	23 4
561	28.3	4.30	3.41	3.04	0.0	2.32	10 4
562	90.8	4.50	0.0	0.0	0.0	0.0	20 4
563	83.4	4.00	0.0	0.0	0.0	0.0	30 4
564	27.4	3.90	0.0	0.0	0.0	0.0	30 4
565	80.1	5.30	4.22	3.84	3.90	0.0	10 4
566	28.5	4.50	4.13	3.59	0.0	0.0	10 4
567	101.2	4.80	0.0	0.0	0.0	0.0	20 4
568	101.2	4.00	0.0	0.0	0.0	0.0	20 4
569 5 <b>7</b> 0	90.3	4.00	0.0	0.0	0.0	0.0	20 4
571	28.6	4.30	0.0	3.06	2.67	0.0	10 4
572	51.0	4.00	3.01	2.63	0.0	0.0	10 4
5 <b>7</b> 3	90.2 89.2	3.90	0.0	0.0	0.0	0.0	30 4
574	89.4	5.70	6.24	5.44	5.42	0.73	10 4
5 <b>7</b> 5	89.6	4.40	0.0	0.0	0.0	0.0	30 4
	07.07	3.80	0.0	0.0	0.0	0.0	20 4

TOLEDO, SPAIN

States March

EVENT NO.	DISTANCE (DEGREES)	MB	MS m-20cma	MS	MS	LQ/I.R	COMMENT
	(DEGREES)		T=20SEC	T=30SEC	T=40SEC	RATIO	
<b>576</b> .	47.8	4.30	0.0	0.0	0.0	0.0	30 4
<b>577</b>	89.6	4.10	0.0	0.0	0.0	0.0	30 4
578	89.5	4.70	0.0	0.0	0.0	0.0	20 4
579	89.4	4.90	0.0	0.0	0.0	0.0	30 4
580	89.4	4.30	0.0	0.0	0.0	0.0	30 4
581	33.4	3.80	0.0	0.0	0.0	0.0	20 4
582	22.3	4.50	3.17	2.88	2.70	0.0	10 4
583	55 <b>.</b> 7	5.50	0.0	4.19	4.18	0.90	10 4
584	55.2	5.00	0.0	0.0	0.0	0.0	20 4
585	26.9	4.00	0.0	0.0	0.0	0.0	23 4
586	43.9	5.00	0.0	0.0	0.0	0.0	30 4
587	24.6	4.00	0.0	0.0	0.0	0.0	20 4
588	89.6	4.20	0.0	0.0	0.0	0.0	23 4
589	89.5	4.20	0.0	0.0	0.0	0.0	30 4
590	84.6	3.70	0.0	0.0	0.0	0.0	20 4
591	84.5	4.50	0.0	0.0	0.0	0.0	20 4
592	27.9	4.00	2.97	2.50	0.0	0.0	10 4
593	86.9	3.90	0.0	0.0	0.0	0.0	30 4
594	44.0	4.70	0.0	0.0	0.0	0.0	30 4
595	56.6	4.20	0.0	0.0	0.0	0.0	20 4
596 507	90.5	5.10	0.0	3.77	3.23	0.0	10 4
59 <b>7</b> 598	83.9	3.80	0.0	0.0	0.0	0.0	20 4
599	55.7	5.50	0.0	4.04	3.58	1.00	10 4
600	83.8	3.70	0.0	0.0	0.0	0.0	20 4
601	19.0	4.30	0.0	0.0	2.63	0.0	13 4
602	28.4 88.8	4.40	3.07	0.0	2.38	0.0	10 4
603	77.2	4.10	0.0	0.0	0.0	0.0	20 4
604	55.9	3.80	0.0	0.0	0.0	0.0	20 4
605	70.0	4.50 5.10	0.0	0.0	0.0	0.0	30 4
606	75.0	4.80	4.26	3.60	3.11	0.85	10 4
607	90.8	4.80	4.48	0.0	3.44	0.0	10 4
608	108.5	4.50	0.0	0.0	0.0	0.0	20 4
609	84.8	3.50	4.31	4.16	3.99	0.0	10 4
610	75.0	5.20	0.0 4.07	0.0	0.0-	0.0	20 4
611	72.5	5.00	4.37	4.02	0.0	0.0	10 4
612	13.7	4.00	3.01	3.90	3.64	0.66	10 4
613	83.6	3.30	0.0	2.55 0.0	0.0	0.0	10 4
614	84.7	5.30	4.18	4.25	0.0	0.0	20 4
615	45.7	3.50	0.0	0.0	3.57	2.84	10 4
6 16	56.1	3.90	0.0	0.0	0.0	0.0	23 4
617	20.3	+4.40	0.0	3.10	0.0	0.0	20 4
618	74.3	4.10	0.0	0.0	0.0	0.0	15 4
619	57.4	4.70	0.0	0.0	0.0	0.0	20 4
620	89.6	3.60	0.0	0.0	0.0	0.0	20 4
621	89.0	3.60	0.0	0.0	0.0	0.0	32 4
622	90.5	3.60	0.0	0.0	0.0	0.0	30 4
623	85.1	3.60	0.0	0.0	0.0	0.0	30 4
624	90.3	4.10	0.0	0.0	0.0	0.0	20 4
					W # W	U • U	30 4

TOLEDO, SPAIN

EVENT	DISTANCE (DEGREES)	MP	MS T=20SEC	MS T=30SFC	MS T=40SEC	LO/LR RATIO	COMMENT
625	84.6	3.40	0.0	0 , 0	0.0	0.0	20 4
626	56.1	5.20	3.35	2.93	0.0	0.0	10 4
627	41.4	3.50	2.99	2.70	0.0	0.0	10 4
628	84.6	3.60	0.0	0.0	0.0	0.0	23 4
629	56.6	3.60	0.0	0.0	0.0	0.0	30 4
630	84.7	4.30	0.0	0.0	0.0	0.0	20 4
631	89.0	3.50	0.0	0.0	0.0	0.0	30 4
632	91.7	4.50	0.0	0.0	0.0	0.0	20 4
633	83.5	3.60	0.0	0.0	0.0	0.0	20 4
634	65.6	5.00	0.0	0.0	0.0	0.0	30 4
635	92.1	4.50	0.0	0.0	0.0	0.0	20 4
636	92.0	3.50	0.0	0.0	0.0	0.0	30 4
637	86.1	3.60	0.0	0.0	0.0	0.0	20 4
638	86.8	3.50	0.0	0.0	0.0	0.0	20 4
639	19.9	3.60	0.0	0.0	0.0	0.0	20 4
640	57.9	3.90	0.0	0.0	0.0	0.0	30 4
641	57.9	3.90	0.0	0.0	0.0	0.0	30 4
642	69.4	4.00	0.0	0.0	0.0	0.0	30 4
643	R4.5	4.00	3.39	3.25	0.0	0.79	10 4
6.114	86.1	5.10	0.0	0.0	0.0	0.0	30 4
645 646	87.0	5.10	0.0	3.30	3.15	0.0	10 4
647	87.9	3.70	0.0	0.0	0.0	0.0	20 4
648	21.0	3.90 3.60	0.0	0.0	0.0	0.0	20 4
649	92.9	4.30	0.0 3.59	0.0	0.0	0.0	20 4
650	91.7	3.50	0.0	3.34 0.0	0.0	0.0	10 4
651	93.0	4.90	4.33	3.57	3.31	0.0 0.0	20 4 10 4
652	37.6	5.70	2.81	2.58	0.0	0.0	10 4
653	88.0	5.20	3.90	3.59	0.0	3.14	10 4
654	83.6	4.50	0.0	0.0	0.0	0.0	30 4
655	90.3	4.00	0.0	3.08	0.0	0.0	13 4
656	116.7	4.80	3.20	3.10	0.0	0.0	10 4
657	81.9	4.30	0.0	0.0	0.0	0.0	30 4
658	74.4	+4.50	0.0	0.0	0.0	0.0	30 4
659	23.4	4.00	2.55	2.47	0.0	0.0	10 4
660	90.9	4.10	0.0	0.0	0.0	0.0	20 4
661	88.4	5.20	4.59	4.00	3.85	0.0	10 4
662	61.6	4.60	0.0	0.0	0.0	0.0	32 4
663	98.9	4.20	0.0	0.0	0.0	0.0	30 4
f, f, 4	99.11	3.70	0.0	0.0	0.0	0.0	20 4
665	25.4	4.00	0.0	0.0	0.0	0.0	20 4
666	A7.6	3.30	0.0	0.0	0.0	0.0	20 4
667	88.9	3.80	0.0	0.0	0.0	0.0	32 4
668	86.1	3.80	0.0	0.0	0.0	0.0	20 4
669	88.5	3.80	0.0	0.0	0.0	0.0	23 4
670	65.9	4.00	0.0	0.0	0.0	0.0	20 4
671	90.5	3.60	0.0	0.0	0.0	0.0	20 4
572	55.9	5.50	0.0	0.0	0.0	0.0	20 4
673	80.2	3.80	0.0	0.0	0.0	0.0	20 4

# TOLEDO, SPAIN

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SFC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
674	26.4	2 60	0.0				
675	86.8	3.60	0.0	0.0	0.0	0.0	20 4
676	86.2	4.00	0.0	0.0	0.0	0.0	30 4
677	56.8	4.80	0.0	0.0	0.0	0.0	30 4
678	83.5	3.60	0.0	3.16	0.0	0.0	16 4
679	43.4	4.20	0.0	0.0	3. 12	0.0	16 4
680	52.5	6.30 5.20	5.22	4.23	3.61	0.0	10 4
681	89.2	3.70	0.0 0.0	0.0 2.91	0.0	0.0	30 4
682	41.9	3.70	0.0	0.0	0.0	4.86	10 4
683	25.7	4.40	3.18	2.81	0.0 2.50	0.0	20 4
684	23.9	3.60	3.64	3.43	2.72	0.0	10 4
685	66.3	3.70	0.0	9.0	0.0	0.0	10 "
686	15.6	*4.30	0.0	0.0	0.0	0.0	20 4
687	74.3	5.50	4.59	4.28	3.65	0.0	20 4 10 4
688	70.7	4.20	0.0	0.0	0.0	0.0	20 4
689	74.3	5.50	4.54	4.16	3.55	0.0	10 4
690	74.2	5.50	4.39	4.23	3.79	0.0	10 4
691	86.1	4.60	0.0	0.0	0.0	0.0	50 4
692	64.5	5.50	4.50	4.08	3.62	0.0	10 4
693	71.9	3.70	0.0	0.0	0.0	0.0	20 4
694	84.5	3.50	0.0	0.0	0.0	0.0	20 4
909	68.7	4.70	0.0	0.0	0.0	0.0	50 4
910	59.2	3.80	0.0	0.0	0.0	0.0	20 4
911	62.3	5.10	0.0	0.0	0.0	0.0	20 4
912	21.6	4.50	0.0	0.0	0.0	0.0	20 4
913	62.6	3.70	0.0	0.0	0.0	0.0	20 4
946	69.3	4.30	0.0	0.0	0.0	0.0	20 4
947	21.3	3.30	0.0	0.0	0.0	0.0	20 4
948	18.3	3.80	0.0	0.0	n. n	0.0	50 μ
1149	90.5	4.60	4.10	0.0	0.0	0.0	20 4
1150	65.2	3.90	0.0	0.0	0.0	0.0	50 4
1151	88.4	4.80	4.10	3.72	3.10	0.0	60 4
1152	84.3	4.70	0.0	0.0	0.0	0.0	30 u
1153	55.9	3.80	4.06	0.0	0.0 -	0.0	20 u
1155	55.3	4.40	0.0	0.0	0.0	0.0	50 4
1156	55.8	3.80	0.0	0.0	0.0	0.0	50 4
1157	55.2	3.70	0.0	0.0	0.0	0.0	50 4
1158	91.4	5.00	0.0	3.40	0.0	0.0	50 4
1159	45.0	3.80	4.00	0.0	0.0	0.0	20 4
1160	55.2	4.00	0.0	0.0	0.0	0.0	50 4
1161	66.4	4.30	0.0	0.0	0.0	0.0	50 11
1162	92.1	4.20	0.0	0.0	0.0	0.0	50 4
1163	91.7	3.80	0.0	0.0	0.0	0.0	50 4
1164	69.4	4.80	0.0	0.0	0.0	0.0	50 4
1165	91.7	4.30	3.67	3.64	3.83	0.0	10 4
1166	92.9	5.20	4.72	4.02	0.0	0.0	10 μ
1167	58.5	3.70	0.0	0.0	0.0	0.0	50 4
1168	93.0	5.30	0.0	0.0	0.0	0.0	50 H
1169	93.1	3.60	0.0	0.0	0.0	0.0	50 4

TOLEDO, SPAIN

EVENT	DISTANCE	MB	wc	<b>M</b> O			
NO.	(DEGREES)	пп	MS T=20SEC	MS	MS M=#06RG	LQ/LR	COMMENT
	(1110110110)		1-203EC	T=30SEC	T=40SEC	RATIO	
1170	92.4	4.10	0.0	0.0	0.0	0.0	50 4
1171	44.6	4.00	0.0	0.0	0.0	0.0	50 4
1172	92.7	5.40	5.00	4.37	0.0	0.0	10 4
1173	92.2	3.90	0.0	0.0	0.0	0.0	
1174	92.6	4.70	0.0	0.0	0.0	0.0	30 4
1175	92.8	4.10	0.0	0.0	0.0	0.0	30 4
1176	92.8	4.50	0.0	0.0	0.0	0.0	30 4
1177	92.7	4.20	0.0	0.0	0.0	0.0	20 4
1178	93.1	4.60	4.65	0.0	0.0		30 4
1179	92.7	4.70	0.0	0.0	0.0	0.0	20 4
1180	92.6	5.30	4.81	4.38	0.0	0.0	30 4
1181	91.5	3.40	0.0	0.0	0.0	0.0	10 4
1182	92.7	5.40	5.32	5.19	0.0	0.0	30 4
1183	92.8	4.50	0.0	0.0	0.0	0.29	10 4
1184	92.0	3.60	0.0	0.0		0.0	30 4
1185	92.5	4.20	4.21	0.0	0.0	0.0	30 4
1186	92.4	3.50	0.0	0.0	0.0	0.0	20 4
1187	92.9	4.10	0.0	0.0	0.0	0.0	50 4
1188	92.4	3.70	0.0	0.0	0.0	0.0	50 4
1189	92.4	3.30	0.0	0.0	0.0	0.0	50 4
1190	92.7	4.40	0.0	0.0	0.0	0.0	50 4
1191	92.8	4.10	0.0	0.0	0.0 0.0	0.0	50 4
1192	92.4	4.10	0.0	0.0	0.0	0.0	50 4
1193	93.1	3.60	0.0	0.0	0.0	0.0	50 4
1194	92.6	4.20	0.0	0.0	0.0	0.0	50 4
1195	93.1	3.70	0.0	0.0	0.0	0.0	50 4
1196	92.5	4.30	0.0	0.0	0.0	0.0	50 4
1197	92.4	3.60	0.0	0.0	0.0	0.0	50 4
1198	92.8	4.90	0.0	0.0	0.0	0.0	30 4
1199	92.8	4.50	0.0	0.0	0.0	0.0	50 4
1200	102.8	4.20	0.0	0.0	0.0	0.0	30 4 50 4
1201	92.4	4.20	0.0	0.0	0.0	0.0	50 4
1202	92.4	4.20	0.0	0.0	0.0	0.0	50 4
1203	91.7	3.40	0.0	0.0	0.0	0.0	30 4
1204	90.8	3.70	0.0	0.0	0.0	0.0	50 4
1205	47.6	4.30	0.0	0.0	0.0	0.0	50 4
1206	61.4	3.90	0.0	0.0	0.0	0.0	30 4
1207	88.8	3.60	0.0	0.0	0.0	0.0	20 4
1268	52.1	5.30	0.0	0.0	0.0	0.0	50 4
1269	50.1	5.30	0.0	0.0	0.0	0.0	20 4
1270	43.4	6.80	5.73	4.59	0.0	2.14	10 4
1272	42.3	6.00	0.0	0.0	0.0	0.0	50 4
1273	41.4	5.20	0.0	0.0	0.0	0.0	20 4
1274	56.2	5.30	0.0	0.0	0.0	0.0	50 4
1275	41.6	4.80	0.0	0.0	0.0	0.0	20 4
1276	42.4	6.90	5.69	5.08	0.0	0.75	10 4
1277	42.1	4.20	0.0	0.0	0.0	0.0	20 4
1278	42.0	4.40	0.0	0.0	0.0	0.0	20 4
1279	41.8	4.80	0.0	0.0	0.0	0.0	20 4

APPENDIX II-G
BASIC DATA FOR
EILAT, ISRAEL (EIL)

EILAT, ISRAEL

NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
262	32.6	4.90	0.0	0.0	0.0	0.0	50 5
263	27.3	3.80	0.0	0.0	0.0	0.0	50 5 50 5
264	85.0	3.80	0.0	0.0	0.0	0.0	50 S
265	30.6	4.20	0.0	0.0	0.0	0.0	
266	63.2	3.60	0.0	0.0	0.0	0.0	50 5 50 5
267	35.3	4.10	0.0	0.0	0.0	0.0	50 5 50 5
268	88.1	4.10	0.0	0.0	0.0	0.0	50 5
269	80.9	3.80	0.0	0.0	0.0	0.0	50 5
270	19.0	4.10	1.83	1.61	0.0	0.0	15 5
27 <b>1</b>	86.9	3.80	0.0	0.0	0.0	0.0	
272	30.5	4.00	0.0	0.0	0.0	0.0	20 5
273	12.4	3.80	1.33	1.13	0.0	0.0	30 5
274	85.9	4.00	0.0	0.0	0.0	0.0	15 5
275	41.1	4.10	0.0	0.0	0.0	0.0	50 5
276	55.5	3.70	0.0	0.0	0.0		50 5
2 <b>77</b>	67.2	3.70	0.0	0.0	0.0	0.0	30 5
278	10.9	5.40	1.63	1.63	0.0	0.0	20 5
279	73.1	3.70	0.0	0.0	0.0	0.0	15 5
280	32.4	3.70	0.0	2.35	0.0	0.0	20 5
2 P 1	43,0	5.30	0.0	0.0	0.0	0.0	15 5
282	10.4	3.70	1.61	1.64	0.0	0.0	20 5
283	57.7	3.70	0.0	0.0	0.0	0.0	15 5
294	19.1	3.60	2.61	2.80	0.0	0.0	20 5
285	31.3	3.50	2.29	2.01	0.0	0.0	15 5
286	82.0	4.50	3.07	2.64	0.0	0.0	15 5
287	20.7	3.80	1.95	2.02	0.0	0.0	15 5
288	40.5	3.40	0.0	0.0	0.0	0.0	15 5
299	53.2	3.60	0.0	0.0	0.0	0.0	20 5
290	40.0	3.50	3.74	3.55	0.0	0.0	20 5
291	112.2	4.10	0.0	0.0	0.0	0.0 0.0	15 5
294	30.6	5.20	3.36	3.21	0.0		30 5
302	17.1	3.90	2.19	1.54	0.0	0.0	15 5
296	34.7	3.50	2.23	2.27	0.0	0.0	15 5
297	80.7	5.00	0.0	0.0	0.0	0.0	15 5
298	39.9	3.60	0.0	0.0	0.0	0.0	30 5
299	93.4	3.60	0.0	0.0	0.0	0.0	20 5
300	95.7	4.70	0.0	0.0	0.0	0.0	20 5
301	79.9	3.70	0.0	0.0	0.0	0.0	20 5
302	32.5	3.20	0.0	0.0	0.0	0.0	20 5
310	85.5	3.90	0.0	0.0	0.0	0.0	20 5
3.1.1	34.6	3.60	3.65	0.0		0.0	20 5
312	55.2	3.70	3.62	0.0	0.0	0.0	10 5
313	13.0	4.10	0.0	0.0	3.28 0.0	0.0	10 5
314	85.1	3.80	0.0	0.0		0.0	20 5
3 15	16.0	4.10	3.03	2.70	0.0	0.0	30 5
316	93.3	3.80	0.0	0.0	0.0	0.0	10 5
317	40.0	3.80	0.0	0.0	0.0	0.0	50 5
318	40.0	3.70	0.0	0.0	0.0	0.0	30 5
319	39.4	3.50	0.0	3.64	0.0 3.29	0.0	20 5 10 5

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20sec	MS T=30SEC	MS T=40SEC	LQ/IR RATIO	COMMENT
320	39.3	3.90	0.0	0.0	0.0	0.0	20 5
321	48.1	3.70	0.0	0.0	0.0	0.0	50 5
322	53.1	4.30	0.0	0.0	0.0	0.0	50 5
323	79.5	*5.00	0.0	0.0	0.0	0.0	50 5
324	16.1	4.20	0.0	0.0	0.0	0.0	50 5
325	16.9	4.20	0.0	0.0	0.0	0.0	20 5
326	84.2	4.00	0.0	0.0	0.0	0.0	20 5
327	88.6	3.40	0.0	0.0	0.0	0.0	20 5
328	86.3	3.50	0.0	0.0	0.0	0.0	20 5
330	52.8	3.50	3.83	3.21	0.0	0.0	10 5
331	84.0	4.00	0.0	0.0	0.0	0.0	30 5
332	13.8	4.20	0.0	0.0	0.0	0.0	20 5
333	10.8	3.90	0.0	2.60	0.0	0.0	10 5
334	31.0	4.80	0.0	0.0	0.0	0.0	20 5
335	57.2	4.00	0.0	0.0	0.0	0.0	50 5
336	84.8	3.40	0.0	0.0	0.0	0.0	50 5
337	85.4	3.60	0.0	0.0	0.0	0.0	30 5
338	84.5	4.70	0.0	0.0	0.0	0.0	30 5
339	38.6	5.50	0.0	0.0	0.0	0.0	20 5
340	85.2	3.80	0.0	0.0	0.0	0.0	20 5
341 343	76.2	5.50	0.0	0.0	0.0	0.0	20 5
344	76.3	4.90	4.26	4.00	3.91	0.0	10 5
345	14.0	4.10	0.0	0.0	0.0	0.0	20 5
346	54.7	4.30	0.0	0.0	0.0	0.0	30 5
347	76.4 17.2	4.70	3.24	3.16	0.0	0.0	10 5
348	49.8	4.50	0.0	0.0	0.0	0.0	30 5
349	85.7	4.70 4.40	0.0	0.0	0.0	0.0	20 5
350	8.7	4.90	0.0 2.66	0.0	0.0	0.0	20 5
351	139.6	4.90	0.0	0.0	1.75	0.0	10 5
352	11.0	4.00	0.0	0.0	0.0	0.0	20 5
353	14.3	3.60	0.0	0.0	0.0	0.0	20 5
354	28.0	4.50	0.0	0.0	0.0	0.0 0.0	20 5
355	86.6	3.70	0.0	0.0	0.0	0.0	20 5
356	10.7	4.00	0.0	0.0	0.0	0.0	20 5 30 5
361	10.7	5.40	5.03	4.47	4.30	0.0	10 5
362	10.7	5.10	0.0	0.0	0.0	0.0	30 5
363	85.9	3.70	0.0	0.0	0.0	0.0	20 5
365	84.4	3.80	0.0	0.0	0.0	0.0	20 5
428	85.4	3.90	0.0	0.0	0.0	0.0	20 5
432	19.7	4.40	3.94	3.28	2.71	0.0	10 5
433	75.6	4.90	3.87	3.87	3.10	0.0	10 5
435	86.7	3.40	0.0	0.0	0.0	0.0	20 5
437	14.1	4.60	3.62	3.19	2.77	0.0	10 5
438	14.1	5.00	3.74	3.37	3.02	0.0	10 5
439	31.3	4.30	0.0	0.0	0.0	0.0	20 5
441	11.9	4.00	3.48	2.72	2.49	0.0	10 5
442	14.3	5.10		3.71	3.36	0.0	10 5
443	85.9	4.00	0.0	0.0	0.0	0.0	20 5

EILAT, ISRAEL

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
444	11.7	3.40	0.0	0 0			
445	17.1	3.90	0.0	0.0	0.0	0.0	20 5
446	84.8	4.40	0.0	0.0	0.0	0.0	30 5
447	83.4	3.60	0.0	0.0	0.0	0.0	20 5
449	39.6	4.60	3.57	0.0	0.0	0.0	20 5
450	43.0	3.50	. 0.0	3.13	0.0	0.0	10 5
451	44.4	4.30	0.0	0.0	0.0	0.0	20 5
452	13.7	3.40	3.67	0.0	0.0	0.0	30 5
453	15.2	4.00	3.27	2.97	0.0	0.0	10 5
454	13.3	4.70	3.10	2.91 2.54	0.0	0.0	10 5
455	16.9	4.10	0.0	0.0	2.02	0.0	10 5
456	38.5	4.40	0.0	0.0	0.0	0.0	30 5
457	18.2	3.10	2.70	2.52	0.0	0.0	30 5
458	49.3	4.30	3.67	3.37	0.0	0.0	10 5
459	83.6	3.90	0.0	0.0	0.0	0.0	10 5
460	84.1	3.70	0.0	0.0	0.0	0.0	30 5
461	57.6	5.00	4.59	4.56	0.0	0.0	20 5
462	57.1	3.70	0.0	0.0	3.83	0.0	10 5
463	15.1	4.70	0.0	0.0	0.0	0.0	20 5
464	87.1	4.90	3.96	3.58	0.0	0.0	20 5
465	84.0	4.20	0.0	0.0	0.0	0.0	10 5
466	14.7	4.00	0.0	0.0	0.0	0.0	20 5
467	81.5	4.10	0.0	0.0	0.0	0.0	20 5
469	85.3	4.10	0.0	0.0	0.0	0.0 0.0	20 5
470	44.9	4.70	0.0	0.0	0.0	0.0	30 5
471	32.1	4.20	0.0	0.0	0.0	0.0	30 5
472	85.6	5.20	0.0	0.0	0.0	0.0	30 5
473	84.8	3.60	0.0	0.0	0.0	0.0	30 5
474	22.0	3.70	0.0	0.0	0.0	0.0	50 5 20 5
475	11.6	4.70	0.0	0.0	0.0	0.0	20 5
476	85.4	5.20	0.0	0.0	0.0	0.0	20 5
477	32.9	3.50	0.0	0.0	0.0	0.0	30 5
478	86.7	4.00	0.0	0.0	0.0	0.0	20 5
479	13.2	4.10	0.0	0.0	0.0	0.0	20 5
481	46.6	3.90	0.0	0.0	0.0	0.0	20 5
482	85.9	4.20	0.0	0.0	0.0	0.0	20 5
483	24.9	3.70	0.0	0.0	0.0	0.0	20 5
484	22.2	4.40	0.0	0.0	0.0	0.0	20 5
485	78.2	3.80	0.0	0.0	0.0	0.0	20 5
486	7.3	3.90	0.0	0.0	0.0	0.0	20 5
487	14.1	4.40	0.0	0.0	0.0	0.0	20 5
488	14.3	3.90	0.0	0.0	0.0	0.0	20 5
489	14.3	3.40	0.0	0.0	0.0	0.0	20 5
490	81.6	3.90	0.0	0.0	0.0	0.0	30 5
491	37.2	3.80	0.0	0.0	0.0	0.0	20 5
492	78.9	5.10	0.0	0.0	0.0	0.0	50 5
499	76.0	4.60	3.74	3.28	2.80	0.0	10 5
500	85.9	3.70	0.0	0.0	0.0	0.0	20 5
501	85.2	4.20	0.0	0.0	0.0	0.0	20 5

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
	57.8	3.90	0.0	0.0	0.0	0.0	50 5
503	85.5	4.20	0.0	0.0	0.0	0.0	30 5
504	6.1	3.90	0.0	0.0	0.0	0.0	20 5
505	83.5	5.30	4.70	4.10	3.93	0.0	10 5
506	83.0	3.30	0.0	0.0	0.0	0.0	20 5
508	86.0	4.10	0.0	0.0	0.0	0.0	30 5
509	83.3	4.50	0.0	0.0	0.0	0.0	30 5
510	36.1	4.00	0.0	0.0	0.0	0.0	20 5
511	31.9	3.70	0.0	0.0	0.0	0.0	20 5
512	21.1	4.00	0.0	0.0	0.0	0.0	20 5
513	84.2	5.00	0.0	0.0	0.0	0.0	30 5
514	86.6	4.20	0.0	0.0	0.0	0.0	20 5
515	81.7	4.30	0.0	0.0	0.0	0.0	50 5
516	30.6	3.60	0.0	0.0	0.0	0.0	20 5
5 17	49.1	3.90	3.83	3.40	0.0	0.0	10 5
5 18	18.4	4.30	0.0	0.0	0.0	0.0	20 5
521	15.7	4.60	3.42	3.06	0.0	0.0	10 5
522	48.6	5.50	4.79	4.50	3.87	0.0	10 5
523	48.5	4.70	0.0	0.0	0.0	0.0	20 5
524	9.7	3.90	0.0	0.0	0.0	0.0	20 5
525	48.3	3.60	0.0	0.0	0.0	0.0	20 5
526	81.1	3.70	0.0	0.0	0.0	0.0	20 5
527	11.1	4.40	0.0	0.0	0.0	0.0	20 5
528	82.3	4.00	0.0	0.0	0.0	0.0	20 5
529	39.0	4.80	0.0	0.0	0.0	0.0	20 5
530	14.3	4.50	0.0	0.0	0.0	0.0	20 5
531	85.6	4.30	0.0	0.0	0.0	0.0	20 5
532	14.8	4.00	0.0	0.0	0.0	0.0	50 5
533	22.1	4.40	0.0	0.0	0.0	0.0	30 5
534	86.7	5.10	0.0	0.0	0.0	0.0	20 5
535	82.6	5.10	0.0	0.0	0.0	0.0	50 5
536	39.3	4.30	0.0	0.0	0.0	0.0	50 5
542	31.0	4.00	0.0	0.0	0.0	0.0	20 5
543	77.1	4.90	0.0	0.0	0.0 -	0.0	30 5
544	56.9	3.50	0.0	0.0	0.0	0.0	30 5
545	13.2	3.60	0.0	0.0	0.0	0.0	20 5
546	83.9	4.80	0.0	0.0	0.0	0.0	50 5
547	76.2	4.60	0.0	0.0	0.0	0.0	20 5
548	15.2	3.60	0.0	0.0	0.0	0.0	20 5
549	80.8	3.70	0.0	0.0	0.0	0.0	30 5
551	4.3	3.70	0.0	0.0	0.0	0.0	23 5
553 554	32.0	3.80	0.0	2.71	0.0	3.98	10 5
554 555	5.7	4.50	3.66	3.56	2.97	0.0	10 5
555 556	10.6	3.40	3.44	3.10	0.0	0.0	10 5
556 557	84.4	4.00	0.0	0.0	0.0	0.0	20 5
55 <i>1</i> 558	19.7	4.70	0.0	4.00	0.0	0.0	10 5
559	84.1	5.60	4.64	0.0	4.74	0.0	10 5
560	84.1	5.00	5.37	4.57	0.0	0.0	10 5
.700	19.7	4.20	0.0	0.0	0.0	0.0	30 5

FILAT, TSRAEL

FVENT NO.	DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
561	8.6	4.30	3.57	0.0	0.0	0.0	10 5
562	85.6	4.50	0.0.	3.69	0.0	0.0	10 5
563	83.7	4.00	0.0	0.0	0.0	0.0	20 5
564	10.9	3.90	3.51	0.0	0.0	0.0	10 5
565	81.6	5.30	4.99	4.74	4.05	0.17	10 5
566	8.5	4.50	3.32	0.0	0.0	0.0	10 5
567	19.7	4.80	0.0	0.0	0.0	0.0	50 5
568	83.3	4.00	0.0	0.0	0.0	0.0	20 5
569	84.6	4.00	0.0	0.0	0.0	0.0	20 5
570	8.7	4.30	0.0	3.80	3.06	0.0	10 5
571	19.7	4.00	0.0	0.0	0.0	0.0	50 5
572	86.1	3.90	0.0	0.0	0.0	0.0	30 5
573	85.9	5.70	0.0	0.0	1.0	0.0	50 5
574	86.0	4.40	0.0	0.0	0.0	0.0	30 5
575	86.4	3.87	0.0	0.0	0.0	0.0	20 5
576	16.2	4.30	0.0	0.0	0.0	0.0	20 5
577	86.4	4.10	0.0	0.0	0.0	0.0	20 5
578	86.1	4.79	0.0	0.0	0.0	0.0	20 5
579	86.0	4.90	0.0	0.0	0.0	0.0	30 5
580	85.9	4.30	0.0	0.0	0.0	0.0	30 5
581	89.2	3.80	0.0	0.0	0.0	0.0	20 5
465	15.4	4.50	0.0	3.56	3.15	0.0	10 5
583	24.0	5.50	3.89	3.73	3.13	0.0	10 5
584	23.6	5.00	0.0	0.0	0.0	0.0	20 5
585	6.6	n.00	0.0	2.91	0.0	0.0	10 5
586	13.6	5.00	3.81	3.31	3.04	1.29	10 5
587	9.2	4.00	0.0	0.0	0.0	0.0	20 5
588	86.4	4.20	0.0	0.0	0.0	0.0	20 5
589	86.1	4.20	4.70	3.97	0.0	0.0	13 5
590	85.2	3.70	0.0	0.0	0.0	0.0	20 5
501	85.8	4.50	3.99	3.82	3.66	0.0	10 5
592	8.9	4.00	0.0	2.40	2.72	0.0	10 5
593	88.3	3.90	0.0	0.0	0.0	0.0	30 5
594			3.88	3.72	0.0	0.49	10 5
5 Q S	25.4	4.20	0.0	•	0.0	0.0	20 5
596 50 <b>7</b>	87.1	5.10	0.0	0.0	0.0	0.0	20 5
59 <b>7</b> 198	82.8	3.80	0.0		0.0	0.0	20 5
499	24.0	5.50	0.0	3.54		2.03	10 5
	85.2	3.70	0.0		0.0	0.0	20 5
	15.3	4.30	0.0	7.0	0.0	0.0	30 5
601	9. R	4.40	4.15	0.0	3.15	0.0	10 5
(03	84.8 64.6	4.10	0.0	0.0	0.0	0.0	20 5
104		3.80	0.0	0.0	0.0	0.0	20 5
7.05	32.5 57.0	4.50	0.0	0.0	0.0	0.0	23 5
( ) ( S	67.2	5. 10	4.27	4.14	0.0	0.22	10.5
60 <b>7</b>	85.7	4.90	5.15	0.0	4.47	0.18	10 5
608	54.6	4.10	0.0	0.0	0.0	0.0	20 5
609	86.0	4.50 3.50	0.0	0.0	0.0	0.0	20 5 20 5

101	EVENT	DISTANCE	MB	MS	MS	MS	LOZIR	COMMENT
T	NO.	(DEGREES)		T = 20SEC	T=30SEC	T=40SEC	PATIO	
	610	50.1	5.20	4.03	3.88	3.51	1.10	10 5
	611	54.4	5.00	4.24	4.20	3.84	0.46	10 5
7	612	20.4	4.00	0.0	0.0	0.0	0.0	20 5
	613	84.5	3.30	0.0	0.0	0.0	0.0	20 5
	614	84.6	5.30	4.27	3.79	0.0	0.0	13 5
40 40	615	15.2	3.50	0.0	0.0	0.0	0.0	20 5
	616	29.5	3.90	0.0	0.0	0.0	0.0	20 5
**	617	15.2	*4.40	0.0	3.85	0.0	0.0	10 5
	618	49.5	4.10	0.0	0.0	0.0	0.0	20 5
	619	31.6	4.70	0.0	0.0	0.0	0.0	20 F
	620	86.4	3.60	0.0	0.0	0.0	0.0	20 5
	621	84.9	3.60	0.0	0.0	0.0	0.0	20 5
	622	85.2	3.60	0.0	0.0	0.0	0.0	30 5
	623	84.3	3.60	0.0	0.0	0.0	0.0	30 5
* *	624	84.6	4.10	0.0	0.0	0.0	0.0	20 5
T7	625	85.2	3.40	0.0	0.0	0.0	0.0	20 5
	6.56	38.6	5.20	0.0	0.0	0.0	0.0	23 5
	627	13.9	3.50	3.47	2.79	0.0	0.0	10 5
	628	85.2	3.60	0.0	0.0	0.0	0.0	20 5
Signature of the state of the s	629	31.3	3.60	3.15	2.59	0.0	0.0	10 5
1	630	85.8	4.30	0.0	3.86	3.78	0.0	10 5
	631	84.9	3.50	0.0	0.0	0.0	0.0	30 4
П	632	84.9	4.50	0.0	0.0	0.0	0.0	20 5
	633	84.1	3.60	0.0	0.0	0.0	0.0	20 %
1 2	634	37.5	5.00	0.0	0.0	0.0	0.0	30 2
7 1	635	85.4	4.50	0.0	0.0	0.0	0.0	20 5
	636	85.3	3.50	0.0	0.0	0.0	0.0	30 5
	637	85.0	3.60	0.0	0.0	0.0	0.0	30 c
	638	84.8	3.50	0.0	0.0	0.0	0.0	ን0 5
	639	14.8	3.60	0.0	0.0	0.0	0.0	50 2
	640	26.5	3.90	0.0	0.0	0.0	0.0	10 5
	641	26.5	3.90	3.55	3.27	0.0	0.0	10 ና
	642	52.7	4.00	0.0	0.0	0.0	0.0	50 5
	643	84.8	4.00	0.0	3.76	0.0	0.0	10 5
b	644	85.0	5.10	0.0	0.0	4.16	0.0	15 5
•	645	83.8	5.10	0.0	0.0	0.0	0.0	50 2
	646	83.8	3.70	0.0	0.0	0.0	0.0	20 5
	647	53.5	3.90	0.0	0.0	() • ()	0.0	50 5
	648	12.9	3.60	0.0	0.0	0.0	0.0	20, 5
	649	84.6	4.30	0.0	3.85	0.0	1.03	10 5
	650	84.8	3.50	0.0	0.0	0.0	0.0	23 5
	651	85.3	4.90	0.0	0.0	0.0	0.0	30 5
	652	22.7	5.70	0.0	0.0	3.55	0.0	17 4
	653	86.9	5.20	4.28	4.53	4.35	0.0	10 %
	654	83.6	4.50	0.0	0.0	9.0	0.0	30 5
177	655	84.6	4.00	0.0	4.07	3.98	0.0	17 5
	656	61.0	4.80	0.0	3.22	0.0	4.46	10 5
1.	657	53.5	4.30	0.0	0.0	0.0	0.0	20 5
	658	46.7	*4.50	0.0	0.0	0.0	0.0	20 5

ETLAT, ISRAEL

EVENT	DISTANCE	MB	MS	M.G			
NO.	(DEGREES)	(11)	T=20SEC	MS $T = 30SEC$	MS T=40SEC	LO/LR RATIO	COMMENT
659	9.9	4.00	0.0	0.0	0 0		
660	85.7	4.10	0.0	0.0	0.0	0.0	20 5
661	85.5	5.20	4.30	4.43	0.0	0.0	20 5
662	37.7	4.60	0.0		3.91	0.0	10 5
663	76.1	4.20	0.0	0.0	0.0	0.0	20 5
664	85.9	3.70	0.0	0.0	0.0	0.0	30 5
665	10.7	4.00		0.0	0.0	0.0	30 5
666	85.1	3.30	0.0	2.68	0.0	0.0	10 5
667	86.7	3.80	0.0	0.0	0.0	0.0	20 5
668	85.0	3.80	0.0	0.0	0.0	0.0	20 5
669	81.9	3.80	0.0	0.0	0.0	0.0	20 5
670	66.6		0.0	0.0	0.0	0.0	23 5
671	85.2	4.00	0.0	0.0	0.0	0.0	20 5
672	38.4	3.60	0.0	0.0	0.0	0.0	20 5
673	56.3	5.50	0.0	0.0	0.0	0.0	20 5
674	9.2	3.80	0.0	0.0	0.0	0.0	20 5
675		3.60	0.0	0.0	0.0	0.0	20 5
676	60.1	4.00	0.0	0.0	0.0	0.0	30 5
677	59.1	4.80	0.0	0.0	0.0	0.0	30 5
678	30.4	3.60	0.0	0.0	0.0	0.0	20 5
	84.7	4.20	4.17	0.0	0.0	0.0	16 5
679	45.3	6.30	4.48	4.15	3.77	0.0	10 5
680	25.6	5.20	0.0	0.0	0.0	0.0	20 5
681	85.4	3.70	0.0	0.0	0.0	0.0	20 5
682	12.1	3.70	0.0	2.75	0.0	0.0	10 5
683	7.4	4.40	0.0	0.0	0.0	0.0	20 5
684	9.8	3.60	0.0	0.0	0.0	0.0	
685	40.3	3.70	0.0	0.0	0.0	0.0	20 5
686	20.7	*4.30	0.0	0.0	0.0	0.0	20 5
687	51.6	5.50	4.87	4.26	3.98	0.78	20 5
688	49.1	4.20	0.0	0.0	0.0	0.78	13 5
689	51.5	5.50	4.37	3.70	3.78		20 5
690	51.4	5.50	4.49	3.93	0.0	0.0	13 5
691	85.0	4.60	0.0	0.0	0.0	0.0	16 5
692	49.7	5.50	4.70	4.48	3.85	0.0	20 5
693	56.5	3.70	0.0	0.0	0.0	0.51	10 5
694	84.8	3.50	0.0	0.0	0.0	0.0	20 5
844	8.5	4.60	0.0	4.24		0.0	20 5
845	28.0	4.30	0.0	0.0	0.0	0.0	10 5
846	86.7	4.10	0.0	0.0	0.0	0.0	20 5
847	32.2	3.70	0.0		0.0	0.0	50 5
848	85.1	4.20	0.0	0.0	0.0	0.0	20 5
849	20.2	3.70	0.0	0.0	0.0	0.0	20 5
850	84.5	4.10	0.0	0.0	0.0	0.0	20 5
851	85.2	4.10		0.0	0.0	0.0	20 5
852	85.9	4.10	0.0	0.0	0.0	0.0	20 5
853	52.9	3.90	0.0	0.0	0.0	0.0	20 5
854	42.5	3.80	0.0	0.0	0.0	0.0	20 5
855	32.0		0.0	0.0	0.0	0.0	20 5
856	12.7	4.00	0.0	0.0	0.0	0.0	20 5
770	12.7	3.70	2.98	0.0	2.27	0.0	10 5

NO.	DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
857	86.2	4.80	0.0	0.0	0.0		50.5
858	84.9	4.70	0.0	0.0	0.0	0.0	50 5
859	84.8	5.70	5. 12	4.78	4.61		50 5
860	85.9	3.50	0.0	0.0	0.0	0.71	10 5
861	29.4	3.60	0.0	0.0	0.0	0.0	50 5
862	15.9	4.60	2.94	2.35	0.0	0.0	50 5
863	12.5	3.60	0.0	0.0	0.0	0.0	10 5
864	85.3	4.00	0.0	0.0	0.0	0.0	50 5 50 5
865	38.6	4.50	0.0	0.0	0.0	0.0	
866	16.1	3.50	0.0	0.0	0.0	0.0	50 5 50 5
867	86.4	4.10	0.0	0.0	0.0	0.0	50 5
868	84.1	4.30	3.53	3.99	3.59	0.55	່ 13 5
869	88.0	4.30	0.0	0.0	0.0	0.0	20 5
870	43.5	4.10	0.0	3.10	0.0	0.0	10 5
871	85.4	3.80	0.0	0.0	0.0	0.0	50 5
872	11.9	3.80	0.0	0.0	0.0	0.0	50 5
873	45.0	4.50	3.52	0.0	0.0	0.0	10 5
874	13.2	4.40	3.27	2.72	3.06	0.0	10 5
875	45.1	4.90	4.26	3.53	0.0	0,42	10 5
878	84.4	3.50	0.0	0.0	0.0	0.0	20 5
879	85.6	3.60	0.0	0.0	0.0	0.0	20 5
880	15.0	4.30	0.0	0.0	0.0	0.0	30 5
881	45.4	5.20	3.62	2.93	0.0	0.0	10 5
882	84.7	4.10	0.0	0.0	0.0	0.0	20 5
883	42.2	3.70	0.0	0.0	0.0	0.0	30 5
884	31.7	5.50	4.27	3.36	0.0	0.0	10 5
885	31.9	4.80	0.0	0.0	0.0	0.0	20 5
886	31.6	3.80	0.0	0.0	0.0	0.0	20 5
887	32.3	4.70	0.0	0.0	0.0	0.0	20 5
888	85.1	3.50	0.0	0.0	0.0	0.0	20 5
889	83.4	3.40	0.0	0.0	0.0	0.0	20 5
890	12.7	5.30	4.58	0.0	0.0	4.70	30 5
891	12.2	4.00	0.0	0.0	0.0	0.0	20 5
892	12.5	4.30	0.0	0.0	0.0	0.0	20 5
893	85.1	4.70	0.0	0.0	0.0	0.0	30 5
894	84.9	3.90	0.0	0.0	0.0	0.0	20 5
895	33.2	4.90	0.0	0.0	0.0	0.0	20 5
896	28.6	4.80	0.0	0.0	0.0	0.0	20 5
897	14.0	5.00	2.64	1.91	0.0	0.69	10 5
898	14.2	4.40	2.31	1.62	0.0	2.89	10 5
899	84.1	4.30	0.0	0.0	0.0	0.0	20 5
900	30.1	3.90	0.0	0.0	0.0	0.0	20 5
901	85.9	3.80	0.0	0.0	0.0	0.0	20 5
902	30.1	3.70	0.0	0.0	0.0	0.0	50 5
903	14.8	3.90	0.0	0.0	0.0	0.0	20 5
904	84.4	3.90	0.0	0.0	0.0	0.0	20 5
905	33.3	3.80	0.0	0.0	0.0	0.0	50 5
906	13.9	3.60	0.0	2.38	0.0	0.0	10 5
911	34.8	5.10	0.0	0.0	0.0	0.0	50 5

FTLAT, ISRAFL

IVFNT	DISTANCE	MIT	Ma				
MC.	· (DEGREES)	WİI	MS T=20SEC	MS T=305EC	MS W=#0686	LO/LR	COMMENT
	1.1.2.1.1		1 - 2 113 110	1-10356	T=40SFC	RATTO	
912	11.8	4.50	0.0	0.0	0.0	0.0	50 5
913	35.0	3.70	0.0	0.0	0.0	0.0	20 5
914	54.9	4.60	(0,0)	0.0	0.0	0.0	50 5
915	28.7	4.80	0.0	0.0	0.0	0.0	50 5
916	28.7	4.50	0.0	0.0	0.0	0.0	
917	20.1	3.80	0.0	0.0	0.0	0.0	20 5
918	28.6	5.00	0.0	4.01	3.68	0.0	20 5
919	30.A	3.60	0.0	0.0	0.0	0.0	10 5
920	49.7	3.70	0.0	0.0	0.0		20 5
921	27.6	3.90	0.0	0.0	0.0	0.0	20 5
922	27.6	4.00	0.0	0.0	0.0	0.0	30 5
923	84.4	3.90	0.0	0.0		0.0	20 5
924	31.3	4.30	0.0	0.0	0.0	0.0	20 5
925	85.0	4.00	0.0	0.0	0.0	0.0	20 5
931	35.1	3.70	0.0		0.0	0.0	30 E
932	84.2	5.30	0.0	0.0	0.0	2.0	20 5
033	15.2	4.70	0.0	0.0	0.0	0.0	20 5
934	10.7	3.70	0.0	2.33	2.18	0.0	10 5
035	85.0	4	0.0	2.54	0.0	0.0	10 5
96	84.9	3.80	0.0	0.0	0.0	0.0	20 5
937	85.0	5.20	9.0	0.0	0.0	0.0	20 5
938	33.2	4.00		0.0	2.2	0.0	20 5
0.30	15.4	4.30	0 • () 0 • 0.	0.0	2.0	0.0	20 5
940	32.7	5.00	0.0	0.0	0.0	0.0	50 5
941	15.2	4.30	0.0	0.0	0.0	0.0	20 5
942	17.0	4.50	0.0	0.0	0.0	0.0	20 5
943	84.1	4.50	0.0	2.54	0.0	0.0	10 5
944	11.7	3.90	0.0	0.0	0.0	0 0	20 5
945	13.0	3.60	2.14	0.0	0.0	0.0	50 5
946	48.7	4.30	0.0	0.0	0.0	7.0	<u></u>
947	13.6	3.30	0.0	0.0	0.0	0.0	20 5
948	16.7	3.80	0.0	0.0	0.0	0.0	50 5
959	88.0	4.60		0.0	0.0	0.0	50 5
960	93.2	3.70	0.0	0.0	0.0	0.0	50 5
961	52.5	4.30	0.0	0.0	0.0	0.0	50 5
962	25.6	4.10	0.0	0.0	0.0	0.0	50 5
963	19.1	4.00	2.37	0.0	1.0	0.0	50 5
964	86.0	3.80	0.0	2.17	1.91	5.43	60 5
965	43.1	4.80	0.0	0.0	0.0	0.0	50 5
966	15.4	5.20	3.82	0.0	0.0	0.0	50 5
967	85.6	3.80		3.21	0.0	1.93	10 5
969	10.4	4.10	0.0	0.0	0.0	0.0	50 5
969	84.7	4.30	0.0	0.0	0.0	0.0	50 5
970	84.1	3.50	0.0	0.0	0.0	0.0	50 5
971	14.2	3.50 3.50	0.0	0.0	0.0	0.0	50 5
972	10.3	4.10	3.52	3.47	0.0	0.0	10 5
973	83.4	4.20	0.0	2.76	2.47	0.0	10 5
974	95.1	5.00	0.0	0.0	0.0	0.0	50 5
975	83.2	3.60	3.65	3.49	3.28	1.17	10 5
	1 3 6 2	) • () ()	0.0	0.0	0.0	0.0	50 5

EILAT, ISRAEL

EVENT NO.	DISTANCE (DEGREES)	MP	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/I.P	COMMENT
976	86.1	3.80	0.0	0.0	0.0	0.0	50 <b>5</b>
977	27.5	3.50	0.0	0.0	0.0	2.0	50 5
978	47.5	4.20	3.61	3.38	3.28	0.0	10 5
979	33.2	3.80	0.0	3.31	0.0	10.0	10 5
980	16.0	*4.40	0.0	0.0	0.0	10.0	50 5
981	87.9	4.00	0.0	0.0	0.0	0.0	50 5
982	82.6	3.40	0.0	0.0	0.0	10.0	50 5
983	10.2	4.20	3.11	3.34	3.12	119.0	10 5
984	84.8	6.30	6.01	5.82	5.90	1.22	10 5
985	85.2	4.90	0.0	0.0	0.0	0.0	50 5
986	85.2	5.30	0.0	0.0	0.0	0,.0	50 5
987	85.2	5.50	0.0	0.0	0.0	: n. 0	50.5
988	85.5	4.20	0.0	0.0	0.0	0.0	50 5
989	85.6	3.80	0.0	0.0	0.0	0.0	50 5
990	2 <b>7.</b> 5	4.20	0.0	0.0	0.0	0.0	50 5
991	85.3	4.00	0.0	0.0	0.0	0.0	50.5
992	85.1	4.30	0.0	0.0	0.0	0.0	50 5
993	85.1	4.10	0.0	0.0	r. n	0.0	50 5
994	84.9	3.60	0.0	0.0	0.0	0.0	50 5
995	85.1	4.00	0.0	0.0	0.0	0.0	50 5
996	85.3	3.50	0.0	0.0	0.0	0.0	50 5
997	85.1	4.90	0.0	0.0	0.0	0.0	50 5
998	84.2	4.20	0.0	0.0	0.0	0.0	50 5
999	85.3	3.70	0.0	0.0	0.0	0.0	50 5
1000	85.2	5.20	0.0	0.0	0.0	0.0	50 5
1001	85.8	4.10	0.0	0.0	0.0	0.0	505
1002	85.8	3.90	0.0	0.0	0.0	0.0	50 5
1003	83.7	3.90	0.0	0.0	0.0	0.0	50 5
1004	84.7	4.50	0.0	0.0	0.0	0.0	50 5
1005	84.7	3.90	0.0	0.0	0.0	0.0	50 F
1006	85.A	3.90	0.0	0.0	0.0	0.0	50 E
1007	87.8	4.60	0.0	0.0	0.0	0.0	50 E
1013	85.1	4.40	0.0	0.0	0.0	0.0	50.5
10 14	84.5	3.90	0.0	0.0	0.0	0.0	50 5
1015	84.4	3.40	0.0	0.0			50 5
1016	84.7	4.60	0.0	0.0	0.0		50 5
1017	50.7	4.20	0.0	0.0	0.0	2.0	50 5
1018	85.0	4.70	0.0	0.0		0.0	50 5
1019	84.7	4.00	3.91	0.0	0.0	2.0	20 m
1020	85.1	3.80	3.02	0.0	0.0	0.0	20 F
1021	9.6	3.90	1.12	0.0	0.0	0.0	20 5
1026	32.6	3.70	0.0	0.0	0.0	0.0	50 5
1027	85.1	3.50	2.13	0.0	0.0	0.0	20 -
1028	11.5	3.60	1.13	0.0	0.0	0.0	20 r.
1029	84.7	5.50	4.20	4.13	3.81	0.0	10 5
1030	14.0	4.60	3.83	3.36	3.07		10 5
1031	84.9	3.50	2.35	0.0	0.0		20 5
1032	85.1	4.60	1.87	0.0	0.0	9.0	20 5
1033	37.1	4.60	0.0	2.77	0.0	0.0	20 5
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EILAT, TSRAEL

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1034	33.3	3.70	2.92	0.0	0.0	0 0	20 5
10.35	84.9	4.60	3.84	0.0	0.0	0.0	20 5
1036	84.7	4.40	2.77	0.0	0.0	0.0	20 5
1037	85.6	3.70	3.18	0.0	0.0	0.0	20 5
1038	84.1	3.90	2.71	0.0	0.0	0.0	20 5
1039	84.0	6.10	5.68	5.56	5.06	0.0	20 5
1040	85.7	4.20	3.23	0.0	0.0	0.0	10 5
1041	85.1	4.00	2.72	0.0	0.0	0.0	20 5
1042	15.2	3.70	2.38	0.0	0.0	0.0	20 5
1043	85.1	3.90	3.00	0.0	0.0	0.0	20 5
1044	35.0	3.40	2.69	0.0	0.0	0.0	20 5
1045	83.7	3.70	2.76	0.0	0.0	0.0 0.0	20 5
1046	85.8	3.60	2.62	0.0	0.0	0.0	20 5
1047	32.4	3.60	2.24	0.0	0.0	0.0	20 5
1048	13.1	4.00	1.65	0.0	0.0	0.0	20 5
1049	31.6	3.60	2.62	0.0	0.0	0.0	20 5 20 5
1050	85.3	5.00	3.43	3.46	2.80	0.0	
1051	36.5	3.60	0.0	0.0	0.0	0.0	10 5 30 5
1052	17.1	*3.60	2.34	0.0	0.0	0.0	20 5
1053	31.2	5.00	0.0	0.0	0.0	0.0	50 5
1054	84.4	4.10	3.22	0.0	0.0	0.0	20 5
1055	13.1	3.60	0.0	0.0	0.0	0.0	30 5
1056	85.3	3.50	2.65	0.0	0.0	0.0	20 5
1057	85.2	3.70	0.0	0.0	0.0	0.0	50 5
1058	85.3	3.50	0.0	0.0	0.0	0.0	50 5
1059	85.6	3.90	3.58	0.0	0.0	0.0	20 5
1060	85.1	4.20	3.48	0.0	0.0	0.0	20 5
1061	85.1	4.50	2.59	0.0	0.0	0.0	20 5
1062	85.6	3.80	2.63	0.0	0.0	0.0	20 5
1063	28.3	4.00	2. 15	0.0	0.0	0.0	20 5
1064	50.3	3.80	0.0	0.0	0.0	0.0	50 5
1065 1066	85.4	4.60	3.45	3.33	0.0	0.0	10 5
1067	85.6	4.00	1.46	0.0	0.0	0.0	20 5
1068	30.8	3.50	1.97	0.0	0.0	0.0	20 5
1069	85.0 50.4	4.20	0.0	0.0	0.0	0.0	30 5
1070	84.9	3.80	0.0	0.0	0.0	0.0	50 5
1071	84.7	4.40	3.05	0.0	0.0	0.0	20 5
1072	14.7	4.70	2.63	0.0	0.0	0.0	20 5
1073	11.5	3.10 3.70	1.39	0.0	0.0	0.0	20 5
1074	85.0	4.40	1.85	0.0	0.0	0.0	20 5
1075	85.5		2.84	0.0	0.0	0.0	20 5
1076	13.9	3.90 3.50	2.55	0.0	0.0	0.0	20 5
1077	85.1	4.10	3.91	0.0	0.0	0.0	20 5
1078	83.8	4.10	3.71	0.0	0.0	0.0	20 5
1079	51.3	3.60	3.71 0.0	0.0	0.0	0.0	20 5
1080	75.8	4.80	3.84	0.0	0.0	0.0	30 5
1081	9.0	4.40	0.0	3.86	3.22	0.0	10 5
1082	84.5	4.30	2.82	2.74	0.0	0.0	10 5
	· ·	• • .70	4.02	0.0	0.0	0.0	20 5

EILAT, ISRAEL

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS M=30CRG	MS	LO/LR	COMMENT
	,	•	1-203EC	T=30SEC	T=40SEC	RATIO	
1083	85.1	5.70	3.85	3.74	0.0	0 0	40 -
1084	48.5	4.50	3.71	0.0	0.0	0.0	10 5
1085	84.9	6.10	4.58	4.33	3.94	0.0	20 5
1086	12.8	4.70	0.0	0.0		0.0	10 5
1087	10.3	4.00	1.80	0.0	0.0	0.0	30 5
1088	86.5	3.90	0.0	0.0	0.0	0.0	20 5
1089	83.7	3.70	3.05	0.0	0.0	0.0	50 5
1090	85.4	4.00	3.58	0.0	0.0	0.0	20 5
1091	50.4	3.70	0.0	0.0	0.0	0.0	20 5
1092	35.6	4.20	0.0	0.0	0.0	0.0	50 5
1224	32.4	3.80	0.0	0.0	0.0	0.0	50 5
1225	13.9	3.60	0.0	2.85	0.0	0.0	30 5
1226	85.9	3.70	3.28	0.0	0.0	0.0	10 5
1227	36.2	4.70	3.53	3.01	0.0	0.0	20 5
1228	31.6	3.70	0.0	0.0	0.0	0.37	10 5
1229	85.1	4.10	0.0	0.0	0.0	0.0	30 5
1230	83.8	3.50	0.0	0.0	0.0	0.0	30 5
1231	28.4	5.10	3.89	3.16	0.0	0.0	50 5
1232	85.0	5.60	6.64		3.04	1.72	10 5
1233	82.1	3.20	0.0	6.18	5.60	0.0	10 5
1234	86.3	3.40	0.0	0.0	0.0	0.0	50 5
1235	82.1	3.60	0.0	0.0	0.0	0.0	50 5
1236	38.0	5.40	0.0	0.0	0.0	0.0	50 5
1237	85.0	4.20	0.0	0.0	0.0	0.0	50 5
1238	39.6	3.40	0.0	0.0	0.0	0.0	20 5
1239	16.3	4.40	3.93	0.0	0.0	0,• 0	30 5
1240	31.6	4.00		3.28	0.0	5.36	10 5
1241	35.7	3.40	0.0	0.0	0.0	0.0	50 5
1242	84.4	4.00	2.70	0.0	0.0	0.0	20 5
1243	32.8	4.20	0.0	0.0	0.0	0.0	50 5
1244	83.8	3.50	0.0	2.53	0.0	0.0	60 5
1245	83.4	3.70	0.0	0.0	0.0	0.0	30 5
1246	50.4	3.60	3.45	0.0	0.0	0.0	20 5
1247	85.2	4.00	0.0	0.0	0.0	0.0	50 5
1248	85.1	3.90	0.0	0.0	0.0	0.0	50 5
1249	83.8	4.00	0.0	0.0	0.0	0.0	30 5
1250	85.0	4.10	0.0	0.0	0.0	0.0	50 5
1251	84.0	3.90	3.21	0.0	0.0	0.0	20 5
1252	85.8	3.40	0.0	0.0	0.0	0.0	50 5
1253	85.6		4.26	0.0	0.0	0.0	20 5
1254	18.2	3.80	3.72	0.0	0.0	0.0	20 5
1255	83.0	4.60	0.0	0.0	0.0	0.0	50 5
1256	83.7	3.60	0.0	0.0	0.0	0.0	50 5
1258	83.8	3.30	0.0	0.0	0.0	0.0	50 5
1259	86.2	3.90	0.0	0.0	0.0	0.0	50 5
1268	29.1	4.00	3.83	0.0	0.0	0.0	20 5
, 20.7	67.1	5.30	0.0	0.0	0.0	0.0	50 5

APPENDIX II-H
BASIC DATA FOR
KONGSBERG, NORWAY (KON)

### KONGSBERG, NORWAY

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1	57.4	4.10	0.0	0.0	0.0	0.0	20 6
2	66.3	4.60	0.0	0.0	0.0	0.0	20 6
3	67.7	4.00	0.0	0.0	0.0	0.0	20 6
24	45.1	3.90	0.0	4.24	0.0	0.0	10 6
25	26.4	4.20	0.0	0.0	0.0	0.0	20 6
26	80.3	4.70	6.27	5.60	0.0	0.0	30 6
27	79.5	4.60	0.0	0.0	0.0	0.0	30 6
28	64.2	3.60	0.0	0.0	0.0	0.0	20 6
29	62.8	4.30	0.0	0.0	0.0	0.0	20 6
30	69.9	3.80	0.0	0.0	0.0	0.0	20 6
3 1	81.9	5.00	4.77	4.77	4.39	1.26	10 6
32	62.8	4.40	0.0	0.0	0.0	0.0	20 6
33	64.4	3.90	0.0	0.0	0.0	0.0	20 6
34	71.6	4.00	0.0	0.0	0.0	0.0	20 6
35	25.5	4.40	4.26	4.05	4.07	0.62	10 6
36	26.3	4.90	3.52	3.73	3.41	0.48	10 6
37	62.9	4.80	4.27	0.0	3.62	1.23	10 6
38	63.0	4.00	4.24	0.0	3.64	1.09	10 6
39	54.1	5.30	5.40	0.0	4.68	0.34	10 6
40	52.2	3.90	3.75	3.12	0.0	0.72	10 6
41	36.3	5.10	0.0	3.57	0.0	0.85	10 6
42 43	67.2 51.0	3.90	0.0	0.0	0.0	0.0	20 6
44		4.70	0.0	3.37	0.0	2.07	10 6
45	46.1 47.3	5.40	0.0	0.0	0.0	0.0	20 6
46	62.7	4.60 3.80	0.0	0.0	0.0	0.0	20 6
47	62.8	3.90	0.0	0.0 0.0	0.0	0.0	20 6
48	27.5	4. 10	0.0	0.0	0.0	0.0	20 6 20 6
49	70.6	4.80	0.0	0.0	0.0	0.0	20 6
50	33.2	4.90	4.11	3.61	0.0	0.47	10 6
51	15.5	4.10	0.0	0.0	0.0	0.0	20 6
5.3	27.1	3.80	0.0	0.0	0.0	0.0	20 6
54	66.2	4.20	0.0	0.0	0.0	0.0	20 6
55	25.6	4.40	0.0	0.0	0.0	0.0	20 6
56	65.5	4.20	0.0	0.0	0.0	0.05	30 6
57	62.6	4.00	0.0	0.0	0.0	0.0	30 6
58	65.8	4.00	0.0	0.0	0.0	0.0	30 6
59	64.1	4.60	0.0	0.0	0.0	0.0	20 6
60	16.0	*4.20	3.37	3.32	2.84	2.70	10 6
61	81.3	4.80	0.0	3.63	0.0	1.31	10 6
6.2	81.6	4.60	0.0	0.0	3.79	2.81	10 6
63	16.0	*3.70	0.0	0.0	0.0	0.0	30 6
6.5	62.9	3.80	0.0	0.0	0.0	0.0	20 6
66	68.0	4.10	0.0	0.0	0.0	0.0	20 6
67	66.3	3.20	0.0	0.0	0.0	0.0	20 6
68	27.2	4.00	0.0	0.0	0.0	0.0	30 6
69	68.0	4.80	0.0	0.0	0.0	0.0	30 6
70	63.1	3.80	0.0	0.0	0.0	0.0	20 6
71	62.6	3.80	0.0	0.0	0.0	0.0	20 6

A STATE OF

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
72	78.7	4.40	0.0	0.0	0.0	0.0	20.6
73	50.6	*4.10	0.0	4.04	0.0	0.72	20 6
74	52.3	4.00	0.0	0.0	0.0	0.0	10 6
75	46.9	4.50	0.0	2.77	0.0		20 6
76	43.6	4.40	0.0	0.0	0.0	2.28	10 6
77	66.5	4.00	0.0	0.0	0.0	0.0	20 6
78	67.9	3.80	0.0	0.0	0.0	0.0	20 6
79	50.3	4.70	0.0	0.0		0.0	20 6
80	46.5	3.90	0.0	0.0	0.0	0.0	20 6
81	64.5	3.90	3.96	3.74	0.0	0.0	20 6
82	62,6	4.10	0.0	0.0	0.0	0.94	10 6
83	58.1	3.60	0.0		0.0	0.0	20 6
84	62.6	3.70	0.0	0.0	0.0	0.0	20 6
85	67.8	3.60	0.0	0.0	0.0	0.0	20 6
86	67.1	3.60		4.42	0.0	0.0	30 6
87	14.6	4.60	0.0	0.0	0.0	0.0	20 6
88	30.5		3.60	3.45	0.0	1.71	10 6
89	71.3	5.10	4.47	0.0	4.07	0.86	10 6
90	16.0	4.50	4.00	0.0	0.0	1.95	10 6
92	68.3	*4.50	3.91	3.90	0.0	1.43	10 6
93		4.80	0.0	0.0	0.0	0.0	20 6
94	68.3	4.80	0.0	0.0	0.0	0.0	30 6
95	15.9	4.40	3.32	3.44	0.0	5.06	10 6
	56.7	5.20	4.15	3.89	3.38	1.26	10 6
96	54.8	4.50	3.60	0.0	0.0	0.78	10 6
97	16.0	<b>*4.10</b>	3.49	3.45	2.97	2.04	10 6
98	16.0	*4.30	3.17	3.18	2.77	1.88	10 6
99	16.0	<b>*4.10</b>	2.89	2.64	0.0	3.02	10 6
100	14.7	3.60	2.76	2.59	0.0	3.12	10 6
101	16.0	<b>*4.30</b>	0.0	0.0	0.0	0.0	30 6
102	16.6	*3.70	0.0	0.0	0.0	0.0	30 6
103	16.1	<b>*4.00</b>	3.20	3.01	0.0	2.05	10 6
104	15.9	*4.30	3.45	3.40	0.0	2.58	10 6
105	16.1	*4.20	3.58	3.59	0.0	1.58	10 6
106	15.8	*4.40	3.14	3.24	0.0	3.27	10 6
107	60.0	4.10	0.0	0.0	0.0	0.0	20 6
108	46.7	4.70	0.0	0.0	0.0	0.0	20 6
109	42.4	4.30	0.0	0.0	0.0	0.0	
110	16.0	*3.80	0.0	0.0	0.0	0.0	20 6
111	65.6	4.80	4.31	4.10	0.0	1.80	30 6
112	84.0	5.70	4.80	0.0	4.45		10 6
113	16.0	*4.30	0.0	0.0		0.93	10 6
114	81.3	4.80	0.0	3.70	0.0	0.0	20 6
115	41.0	4.30	0.0	0.0	0.0	0.0	10 6
116	39.1	5.50	0.0		0.0	0.0	20 6
117	40.8	4.50	3.69	0.0	0.0	0.0	20 6
118	40.8	3.90	0.0	0.0	0.0	3.46	10 6
119	40.9	4.10		0.0	0.0	0.0	20 6
120	45.6	4.90	0.0	0.0	0.0	0.0	50 6
122	65.6		4.52	0.0	3.31	0.89	10 6
	0.7.0	3.90	0.0	3.69	0.0	2.40	10 6

EVENT NO.	DISTANCE (DEGREES)	ŊΠ	MS T=20SEC	MS T=305EC	MS T=40SFC	LQ/LR RATIO	COMMENT
123	62.3	4.60	0.0	3.84	0.0	0.71	10 6
124	71.1	3.80	0.0	0.0	0.0	0.0	20 6
125	24.4	4.50	0.0	3.25	0.0	2.02	10 6
126	63.5	3.00	0.0	0.0	0.0	0.0	20 6
120	45.9	4.80	3.72	0.0	0.0	0.64	10 6
130	69.2	3.70	0.0	0.0	0.0	0.0	20 6
131	71.2	4.70	0.0	0.0	0.0	0.0	20 6
132	63.1	4.00	0.0	0.0	0.0	0.0	20 6
133	70.8	5.20	4.12	0.0	0.0	0.59	10 6
134	70.6	5.40	4.79	0.0	0.0	0.78	10 6
135	50.6	3.90	0.0	0.0	0.0	0.0	20 6
136	66.7	4.20	0.0	0.0	0.0	0.0	20 6
137	53.1	3.90	0.0	0.0	0.0	0.0	20 6
1 38	62.9	4.10	0.0	0.0	0.0	0.0	20 6
139	63.7	4.80	0.0	3.49	0.0	0.96	10 6
140	20.2	3.50	3.64	0.0	0.0	0.0	30 6
141	44.9	5.30	3.83	3.66	0.0	0.58	30 6
142	55.7	4.10	0.0	0.0	0.0	0.0	20 6
143	61.3	3.40	0.0	0.0	0.0	0.0	20 6
144	43.6	4.00	3.30	0.0	0.0	0.49	10 6
145	71. ?	4.80	3.77	3.44	0.0	1.84	10 6
146	70.9	4.70	3.71	0.0	0.0	1.83	10 6
147	71.1	4.90	3.95	0.0	0.0	1.33	10 6
149	77.4	1.70	0.0	0.0	0.0	0.0	20 6
140	33,3	3.70	0.0	0.0	0.0	0.0	20 6
150	45.0	3.80	0.0	0.0	0.0	0.0	20 6
151	44.1	4.30	0.0	0.0	0.0	0.0	20 6
152	63.4	3.70	0.0	0.0	0.0	0.0	20 6
153	63.2	4.50	0.0	0.0	0.0	0.0	20 6
154	£1.1	3.70	0.0	0.0	0.0	0.0	30 6
155	69.5	3.70	0.0	0.0	0.0	0.0	30 6
156	69.1	5.00	4.84	0.0	4.28	0.12	10 6
157	67.8	3.60	0.0	0.0	0.0	0.0	30 6
158	65.8	4.30	0.0	0.0	0.0	0.0	30 6
150	63.9	3.80	0.0	0.0	0.0	0.0	20 6
160	67.9	3.70	0.0	0.0	0.0	0.0	20 6
161	68.3	3.50	0.0	0.0	0.0	0.0	20 6
162	69.7	3.80	0.0	0.0	0.0	0.0	20 6
163	19.9	3.70	0.0	0.0	0.0	0.0	20 6
164	67.8	4.00	0.0	0.0	0.0	0.0	20 6
165	67.9	4.90	4.48	3.94	0.0	0.92	10 6
166	118.5	3.80	0.0	0.0	0.0	0.0	30 6
167	69.3	4.90	0.0	3.27	0.0	0.80	10 6
168	63.2	3.30	0.0	0.0	0.0	0.0	50 6
169	59.9	3.80	0.0	3.43	0.0	0.85	10 6
170	64.6	4.00	0.0	0.0	0.0	0.0	20 6
171	67.5	4.70	0.0	0.0	0.0	0.0	50 6
172	47.2	5.30	5.51	0.0	4.34	0.64	10 6
173	30.?	3.30	0.0	0.0	0.0	0.0	20 6

174       29.4       3.30       0.0       0.0       0.0         175       28.3       4.90       4.20       4.0b       0.0         176       37.2       4.10       0.0       0.0       0.0       0.0         177       30.4       3.50       0.0       0.0       0.0       0.0         178       65.2       4.50       0.0       0.0       0.0       0.0         179       29.1       4.40       3.14       2.93       0.0         180       77.5       4.00       0.0       0.0       0.0         181       42.3       4.50       0.0       0.0       0.0         182       69.0       4.20       0.0       0.0       0.0         183       45.0       4.20       0.0       0.0       0.0         184       62.4       4.10       0.0       0.0       0.0         185       63.9       3.30       0.0       0.0       0.0         186       43.2       3.90       0.0       0.0       0.0         187       38.6       3.60       0.0       0.0       0.0         188       38.6       3.70       0.0 </th <th>LOZT P RATTO</th> <th>COMMENT</th>	LOZT P RATTO	COMMENT
175 28.3 4.90 4.20 4.00 0.0 176 37.2 4.10 0.0 0.0 0.0 0.0 177 30.4 3.50 0.0 0.0 0.0 0.0 178 65.2 4.50 0.0 0.0 0.0 0.0 179 29.1 4.40 3.14 2.93 0.0 180 77.5 4.00 0.0 0.0 0.0 0.0 181 42.3 4.50 0.0 0.0 0.0 0.0 182 69.0 4.20 0.0 0.0 0.0 0.0 183 45.0 4.20 0.0 0.0 0.0 0.0 184 62.4 4.10 0.0 0.0 0.0 0.0 185 63.9 3.36 0.0 0.0 0.0 0.0 186 43.2 3.90 0.0 0.0 0.0 0.0 187 38.6 3.60 0.0 0.0 0.0 0.0 188 38.6 3.70 0.0 0.0 0.0 0.0 189 40.8 4.40 0.0 3.11 0.0 190 39.1 4.20 0.0 0.0 0.0 0.0 191 66.7 4.50 0.0 0.0 0.0 0.0 192 38.5 3.80 0.0 0.0 0.0 0.0 193 44.2 4.40 3.90 0.0 0.0 0.0 194 40.6 4.70 0.0 0.0 0.0 0.0 195 44.1 3.90 0.0 0.0 0.0 0.0 196 39.9 3.70 0.0 0.0 0.0 0.0 197 35.4 3.90 0.0 0.0 0.0 0.0 197 35.4 3.90 0.0 0.0 0.0 0.0 197 35.4 3.90 0.0 0.0 0.0 0.0 198 38.3 3.40 0.0 0.0 0.0 0.0 0.0 199 38.3 3.30 0.0 0.0 0.0 0.0 0.0	0.0	20 6
176	0.58	10 6
177       30.4       3.50       0.0       0.0       0.0       0.0         178       65.2       4.50       0.0       0.0       0.0       0.0         179       29.1       4.40       3.14       2.93       0.0         180       77.5       4.00       0.0       0.0       0.0         181       42.3       4.50       0.0       0.0       0.0         182       69.0       4.20       0.0       0.0       0.0         183       45.0       4.20       0.0       0.0       0.0         184       62.4       4.10       0.0       0.0       0.0         185       63.9       3.30       0.0       0.0       0.0         186       43.2       3.90       0.0       0.0       0.0         187       38.6       3.60       0.0       0.0       0.0         188       38.6       3.70       0.0       0.0       0.0         190       39.1       4.20       0.0       0.0       0.0         191       66.7       4.50       0.0       0.0       0.0         192       38.5       3.80       0.0       0.0 <td>0.0</td> <td>30 6</td>	0.0	30 6
178 65.2 4.50 0.0 0.0 0.0 0.0 179 29.1 14.40 3.14 2.93 0.0 180 77.5 4.00 0.0 0.0 0.0 0.0 0.0 181 42.3 4.50 0.0 0.0 0.0 0.0 182 69.0 4.20 0.0 0.0 0.0 0.0 183 45.0 4.20 0.0 0.0 0.0 0.0 184 62.4 4.10 0.0 0.0 0.0 0.0 185 63.9 3.36 0.0 0.0 0.0 0.0 186 43.2 3.90 0.0 0.0 0.0 0.0 187 38.6 3.60 0.0 0.0 0.0 0.0 188 38.6 3.70 0.0 0.0 0.0 0.0 189 40.8 4.40 0.0 3.11 0.0 190 39.1 4.20 0.0 0.0 0.0 0.0 191 66.7 4.50 0.0 0.0 0.0 0.0 192 38.5 3.80 0.0 0.0 0.0 0.0 192 38.5 3.80 0.0 0.0 0.0 0.0 193 44.2 4.40 3.90 0.0 0.0 0.0 193 44.2 4.40 3.90 0.0 0.0 0.0 195 44.1 3.90 0.0 0.0 0.0 0.0 196 39.9 3.70 0.0 0.0 0.0 0.0 196 39.9 3.70 0.0 0.0 0.0 0.0 197 35.4 3.90 0.0 0.0 0.0 0.0 197 35.4 3.90 0.0 0.0 0.0 0.0 197 35.4 3.90 0.0 0.0 0.0 0.0 198 38.3 3.40 0.0 0.0 0.0 0.0 0.0 198 38.3 3.40 0.0 0.0 0.0 0.0 0.0	0.0	20 6
179	0.0	20 6
180       77.5       u.nn       0.0       0.0       0.0       0.0         181       42.3       4.50       9.0       0.0       0.0       0.0         182       69.0       4.20       0.0       0.0       0.0       0.0         183       45.0       4.20       0.0       0.0       0.0       0.0         184       62.4       4.10       0.0       0.0       0.0       0.0         185       63.9       3.30       0.0       0.0       0.0       0.0         186       43.2       3.90       0.0       0.0       0.0       0.0         187       38.6       3.60       0.0       0.0       0.0       0.0         188       38.6       3.70       0.0       0.0       0.0       0.0         189       40.8       4.40       0.0       3.11       0.0       0.0         190       39.1       4.20       0.0       0.0       0.0       0.0         191       66.7       4.50       0.0       0.0       0.0       0.0         192       38.5       3.80       0.0       0.0       0.0       0.0         194	1.00	10 6
181       42.3       4.50       0.0       0.0       0.0         182       69.0       4.20       0.0       0.0       0.0         183       45.0       4.20       0.0       0.0       0.0         184       62.4       4.10       0.0       0.0       0.0         185       63.9       3.30       0.0       0.0       0.0         186       43.2       3.90       0.0       0.0       0.0         187       38.6       3.60       0.0       0.0       0.0         188       38.6       3.70       0.0       0.0       0.0         189       40.8       4.40       0.0       3.11       0.0         190       39.1       4.20       0.0       0.0       0.0         191       66.7       4.50       0.0       0.0       0.0         192       38.5       3.80       0.0       0.0       0.0         193       44.2       4.40       3.90       0.0       0.0         194       40.6       4.70       0.0       0.0       0.0         195       44.1       3.90       0.0       0.0       0.0 <tr< td=""><td>0.0</td><td>20 6</td></tr<>	0.0	20 6
183       45.0       4.20       0.0       0.0       0.0       0.0         184       62.4       4.10       0.0       0.0       0.0       0.0         185       63.9       3.30       0.0       0.0       0.0       0.0         186       43.2       3.90       0.0       0.0       0.0       0.0         187       38.6       3.60       0.0       0.0       0.0       0.0         188       38.6       3.70       0.0       0.0       0.0       0.0         189       40.8       4.40       0.0       3.11       0.0         190       39.1       4.20       0.0       0.0       0.0       0.0         191       66.7       4.50       0.0       0.0       0.0       0.0       0.0         192       38.5       3.80       0.0       0.0       0.0       0.0       0.0         193       44.2       4.40       3.90       0.0       0.0       0.0       0.0         194       40.6       4.70       0.0       0.0       0.0       0.0       0.0         195       44.1       3.90       0.0       0.0       0.0	0.0	20 6
183       45.0       4.20       0.0       0.0       0.0       0.0         184       62.4       4.10       0.0       0.0       0.0       0.0         185       63.9       3.30       0.0       0.0       0.0       0.0         186       43.2       3.90       0.0       0.0       0.0       0.0         187       38.6       3.60       0.0       0.0       0.0       0.0         188       38.6       3.70       0.0       0.0       0.0       0.0         189       40.8       4.40       0.0       3.11       0.0         190       39.1       4.20       0.0       0.0       0.0       0.0         191       66.7       4.50       0.0       0.0       0.0       0.0       0.0         192       38.5       3.80       0.0       0.0       0.0       0.0       0.0         193       44.2       4.40       3.90       0.0       0.0       0.0       0.0         195       44.1       3.90       0.0       0.0       0.0       0.0       0.0         196       39.9       3.70       0.0       0.0       0.0	0.0	20 6
184       62.4       4.10       0.0       0.0       0.0       0.0         185       63.9       3.30       0.0       0.0       0.0       0.0         186       43.2       3.90       0.0       0.0       0.0       0.0         187       38.6       3.60       0.0       0.0       0.0       0.0         188       38.6       3.70       0.0       0.0       0.0       0.0         189       40.8       4.40       0.0       3.11       0.0         190       39.1       4.20       0.0       0.0       0.0         191       66.7       4.50       0.0       0.0       0.0         192       38.5       3.80       0.0       0.0       0.0         193       44.2       4.40       3.90       0.0       0.0         194       40.6       4.70       0.0       0.0       0.0         195       44.1       3.90       0.0       0.0       0.0         196       39.9       3.70       0.0       0.0       0.0         197       35.4       3.90       0.0       0.0       0.0         198       38.3	0.0	
186       43.2       3.90       0.0       0.0       0.0         187       38.6       3.60       0.0       0.0       0.0         188       38.6       3.70       0.0       0.0       0.0         189       40.8       4.40       0.0       3.11       0.0         190       39.1       4.20       0.0       0.0       0.0         191       66.7       4.50       0.0       0.0       0.0         192       38.5       3.80       0.0       0.0       0.0         193       44.2       4.40       3.90       0.0       0.0         194       40.6       4.70       0.0       0.0       0.0         195       44.1       3.90       0.0       0.0       0.0         196       39.9       3.70       0.0       0.0       0.0         197       35.4       3.90       0.0       0.0       0.0         198       38.3       3.40       0.0       0.0       0.0         199       38.3       3.40       0.0       0.0       0.0	0.0	20 6
186       43.2       3.90       0.0       0.0       0.0         187       38.6       3.60       0.0       0.0       0.0         188       38.6       3.70       0.0       0.0       0.0         189       40.8       4.40       0.0       3.11       0.0         190       39.1       4.20       0.0       0.0       0.0         191       66.7       4.50       0.0       0.0       0.0         192       38.5       3.80       0.0       0.0       0.0         193       44.2       4.40       3.90       0.0       0.0         194       40.6       4.70       0.0       0.0       0.0         195       44.1       3.90       0.0       0.0       0.0         196       39.9       3.70       0.0       0.0       0.0         197       35.4       3.90       0.0       0.0       0.0         198       38.3       3.40       0.0       0.0       0.0         199       38.3       3.40       0.0       0.0       0.0	0.0	20 6
187       38.6       3.60       0.0       0.0       0.0         188       38.6       3.70       0.0       0.0       0.0         189       40.8       4.40       0.0       3.11       0.0         190       39.1       4.20       0.0       0.0       0.0         191       66.7       4.50       0.0       0.0       0.0         192       38.5       3.80       0.0       0.0       0.0         193       44.2       4.40       3.90       0.0       0.0       0.0         194       40.6       4.70       0.0       0.0       0.0       0.0         195       44.1       3.90       0.0       0.0       0.0       0.0         196       39.9       3.70       0.0       0.0       0.0       0.0         197       35.4       3.90       0.0       0.0       0.0       0.0         198       38.3       3.40       0.0       0.0       0.0       0.0         199       38.3       3.30       0.0       0.0       0.0       0.0		30 6
188       38.6       3.70       0.0       0.0       0.0       0.0         189       40.8       4.40       0.0       3.11       0.0       0.0         190       39.1       4.20       0.0       0.0       0.0       0.0         191       66.7       4.50       0.0       0.0       0.0       0.0         192       38.5       3.80       0.0       0.0       0.0       0.0         193       44.2       4.40       3.90       0.0       0.0       0.0         194       40.6       4.70       0.0       0.0       0.0       0.0         195       44.1       3.90       0.0       0.0       0.0       0.0         196       39.9       3.70       0.0       0.0       0.0       0.0         197       35.4       3.90       0.0       0.0       0.0       0.0         198       38.3       3.40       0.0       0.0       0.0       0.0         199       38.3       3.30       0.0       0.0       0.0       0.0	0.0	20 6
189 40.8 4.40 0.0 3.11 0.0 190 39.1 4.20 0.0 0.0 0.0 191 66.7 4.50 0.0 0.0 0.0 192 38.5 3.80 0.0 0.0 0.0 193 44.2 4.40 3.90 0.0 0.0 194 40.6 4.70 0.0 0.0 0.0 195 44.1 3.90 0.0 0.0 0.0 196 39.9 3.70 0.0 0.0 0.0 197 35.4 3.90 0.0 0.0 0.0 198 38.3 3.40 0.0 0.0 0.0 199 38.3 3.30 0.0 0.0	0.0	20 6
190 39.1 4.20 0.0 0.0 0.0 0.0 191 66.7 4.50 0.0 0.0 0.0 0.0 192 38.5 3.80 0.0 0.0 0.0 0.0 193 44.2 4.40 3.90 0.0 0.0 0.0 194 40.6 4.70 0.0 0.0 0.0 0.0 195 44.1 3.90 0.0 0.0 0.0 0.0 196 39.9 3.70 0.0 0.0 0.0 0.0 197 35.4 3.90 0.0 0.0 0.0 0.0 198 38.3 3.40 0.0 0.0 0.0 0.0 199 38.3 3.30 0.0 0.0 0.0 0.0	0.0	20 6
191 66.7 4.50 0.0 0.0 0.0 192 38.5 3.80 0.0 0.0 0.0 0.0 193 44.2 4.40 3.90 0.0 0.0 0.0 194 40.6 4.70 0.0 0.0 0.0 195 44.1 3.90 0.0 0.0 0.0 196 39.9 3.70 0.0 0.0 0.0 197 35.4 3.90 0.0 0.0 0.0 0.0 198 38.3 3.40 0.0 0.0 0.0 0.0 199 38.3 3.30 0.0 0.0 0.0 0.0	2.10	10 6
193	0.0	50 6
193	0.0	50 G
194 40.6 4.70 0.0 0.0 0.0 195 44.1 3.90 0.0 0.0 0.0 196 39.9 3.70 0.0 0.0 0.0 197 35.4 3.90 0.0 0.0 0.0 198 38.3 3.40 0.0 0.0 0.0 199 38.3 3.30 0.0 0.0	0.0	20 6
195 44.1 3.90 0.0 0.0 0.0 196 39.9 3.70 0.0 0.0 0.0 197 35.4 3.90 0.0 0.0 0.0 198 38.3 3.40 0.0 0.0 0.0 199 38.3 3.30 0.0 0.0	0.54	10 6
196 39.9 3.70 0.0 0.0 0.0 197 35.4 3.90 0.0 0.0 0.0 198 38.3 3.40 0.0 0.0 0.0 199 38.3 3.30 0.0 0.0	0.0	30 6
197 35.4 3.90 0.0 0.0 0.0 198 38.3 3.40 0.0 0.0 0.0 199 38.3 3.30 0.0 0.0	0.0	30 6
198 38.3 3.40 0.0 0.0 0.0 199 38.3 3.30 0.0 0.0	0.0	30 6
143 38.3 3.39 0.0 0.0 0.0	0.0	30 6
	0.0	30 4
	0.0	30 6
200 42.2 4.40 0.0 0.0 0.0	0.0	30 6
201 38.7 3.60 0.0 0.0 0.0	0.0	30 e
	0.n	30 6
203 36.2 3.80 0.0 0.0 0.0	0.0	30 4
204 38.9 4.20 0.0 0.0 0.0	0.0	20 €
205 62.5 3.60 4.09 0.0 0.0	9.34	10 6
206 40.5 4.20 0.0 0.0 0.0	1.0	20 6
207 41.1 4.00 0.0 0.0 0.0	0.0	50 e
208 40.9 4.10 3.32 0.0 0.0	0.0	60 6
209 45.0 1.70 0.0 0.0 0.0	0.0	20 K
210 36.2 4.00 0.0 0.0 0.0	0.0	20 f
211 29.9 3.40 0.0 0.0 0.0 212 62.6 4.20 0.0 0.0	0.0	50 E
	0.0	20 6
213 40.9 4.00 0.0 0.0 0.0	0.0	30 €
214 44.5 4.00 0.0 0.0 0.0	0.0	20 6
216 64.9 3.70 0.0 0.0 (.0	0.0	20 6
217 61.7 3.90 0.0 0.0 0.0	0.0	20 6
218 30.5 3.70 3.26 0.0 0.0	1.18	10 6
219 63.4 3.40 0.0 0.0 0.0	0.0	30 6
220 67.1 3.50 0.0 0.0	0.0	20 6
221 20.0 3.60 0.0 0.0 0.0	0.0	30 6
222 65.9 3.60 0.0 0.0 0.0	0.0	20 6
1. 223 13.0 *4.30 3.58 3.44 0.0	0.62	10 6

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
224	35.4	4.00	3.32	0.0	0.0	1.13	10 6
225	42.6	3.50	0.0	0.0	0.0	0.0	10 6
226	69.9	4.20	0.0	0.0	0.0		20 6
227	64.7	4.10	0.0	0.0	0.0	0.0	30 6
228	69.1	4.60	0.0	0.0	0.0	0.0	20 6
229	35.7	3.80	0.0	0.0	0.0	0.0	20 6
230	62.8	4.10	0.0	0.0		0.0	20 6
231	69.4	4.20	0.0	0.0	0.0	0.0	50 6
245	57.9	4.50	0.0	0.0	0.0	0.0	20 6
247	18.0	2.70	0.0	0.0	0.0	0.0	20 6
248	44.5	4.00	0.0		0.0	0.0	20 6
249	67.2	0.0	0.0	0.0 0.0	0.0	0.0	30 6
250	67.4	4.30	0.0		0.0	0.0	20 6
251	65.0	4.20	0.0	0.0	0.0	0.0	20 6
252	68.2	4.00	0.0	0.0	0.0	0.0	30 6
253	53.0	3.80	0.0	0.0	0.0	0.0	.30 6
254	67.0	4.20	0.0	0.0	0.0	0.0	20 6
255	45.2	*4.60	3.77	0.0	0.0	0.0	30 6
256	20.6	3.50	3.34	0.0	0.0	0.40	10 6
257	66.2	3.30	0.0	3.20	0.0	0.21	10 6
258	68.8	3.00	0.0	0.0	0.0	0.0	20 6
259	65.2	3.60	0.0	0.0	0.0	0.0	20 6
260	38.9	5.50	3.43	0.0	0.0	0.0	20 6
261	70.2	3.70	0.0	3.33 0.0	0.0	0.56	10 6
262	47.9	4.90	3.92	0.0	0.0	0.0	20 6
263	9.7	3.80	0.0		0.0	0.45	10 6
264	63.2	3.80	0.0	0.0 0.0	0.0	0.0	30 6
265	43.3	4.20	0.0	0.0	0.0	0.0	20 6
266	35.7	3.60	0.0	0.0	0.0	0.0	30 6
267	48.6	4.10	0.0	0.0	0.0	0.0	20 6
268	71.6	4.10	0.0	0.0	0.0	0.0	20 6
269	61.1	3.80	0.0	0.0	0.0	0.0	20 6
270	43.4	4.10	0.0	0.0	0.0	0.0	20 6
271	68.3	3.80	0.0	0.0	0.0	0.0	20 6
272	44.0	4.00	0.0	0.0	0.0	0.0	30 6
273	22.7	3.80	0.0	0.0	0.0	0.0	30 6
274	63.9	4.00	0.0	0.0		0.0	30 6
275	53.0	4.10	0.0	0.0	0.0	0.0	20 6
276	72.6	3.70	0.0	0.0	0.0	0.0	20 6
277	101.9	3.70	0.0	0.0	0.0	0.0	20 6
278	23.9	5.40	4.76	4.51	0.0	0.0	30 6
279	68.4	3.70	0.0	0.0	0.0	2.22	10 6
280	44.0	3.70	0.0	0.0	0.0	0.0	20 6
281	56. A	5.30	3.64	3.38	0.0	0.0	20 6
282	24.3	3.70	0.0	0.0	0.0	1.55	10 6
283	59.6	3.70	0.0	0.0	0.0	0.0	30 6
284	46.4	3.60	0.0	0.0	0.0	0.0	20 6
285	46.5	3.50	0.0	0.0	0.0	0.0	20 6
286	64.2	4.50	5.02	0.0	0.0	0.0 1.39	20 6 10 6

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
287	46.1	3.80	0.0	0.0	0.0	0 , 0	20 6
288	50.8	3.40	0.0	2.98	0.0	0.63	10 6
289	64.3	3.60	3.42	3.73	0.0	0.43	10 6
290	49.3	3.50	3.83	3.64	0.0	2.04	
<b>291</b>	77.6	4.10	0.0	0.0	0.0	0.0	10 6 30 6
292	68.0	5.20	3.67	4.02	0.0	0.68	10 6
293	43.8	4.00	0.0	0.0	0.0	0.00	
294	41.5	5.20	5.05	0.0	3.74	0.51	30 6
295	43.6	3.90	0.0	0.0	0.0	0.0	10 6
296	50.5	3.50	0.0	0.0	0.0		20 6
297	67.0	5.00	0.0	0.0	0.0	0.0	20 6
298	42.2	3.60	0.0	0.0	0.0	0.0	30 6
299	61.5	3.60	0.0	0.0	0.0	0.0	20 6
300	66.6	4.70	0.0	4.46	3.97	0.0 0.45	20 6
301	62.0	3.70	0.0	0.0	0.0		10 6
302	42.0	3.20	0.0	0.0		0.0	20 6
304	68.5	3.60	0.0	0.0	0.0	0.0	20 6
305	70.6	4.40	0.0	0.0	0.0	0.0	20 6
306	44.8	3.90	0.0		0.0	0.0	30 6
307	69.4	4.00	0.0	0.0 0.0	0.0	0.0	20 6
308	45.2	3.40	3.28		0.0	0.0	20 6
309	46.8	3.40	0.0	2.94	0.0	0.42	10 6
310	68.5	3.90	0.0	0.0	0.0	0.0	20 6
311	33.5	3.60	3.11	0.0	0.0	0.0	20 6
312	54.7	3.70		2.58	0.0	0.0	10 6
313	22.6	4. 10	0.0	0.0	0.0	0.0	20 6
314	63.5	3.80	0.0	0.0	0.0	0.0	20 6
315	41.4	4.10	0.0	0.0	0.0	0.0	20 6
316	66.2	3.80	0.0	0.0	0.0	0.0	30 6
317	46.3	3.80	0.0	0.0	0.0	0.0	30 K
318	46.3	3.70	0.0	0.0	0.0	0.0	20 6
3 19	45.0		0.0	0.0	0.0	0.0	20 6
320	45.8	3.50	0.0	0.0	0.0	0.0	20 6
321	55.8	3.90 3.70	0.0	0.0	0.0	0.0	16 6
322	63.9		0.0	0.0	0.0	0.0	20 F
323	81.8	4.30	0.0	0.0	0.0	0.0	30 6
324	42.3	<b>*5.00</b> <b>4.20</b>	4.42	3.78	2.96	7.14	10 6
325	41.9		0.0	0.0	0.0	0.0	30 6
326	64.5	4.20	0.0	0.0	0.0	0.0	20 6
327		4.00	0.0	0.0	0.0	0.0	20 6
328	66.1	3.40	0.0	0.0	0.0	0.0	20 6
330	64.6	3.50	0.0	0.0	0.0	0.0	20 6
	60.7	3.50	0.0	0.0	0.0	0.0	20 6
331 332	62.6	4.00	0.0	0.0	0.0	0.0	30 6
333	23.1	4.20	3.96	4.18	0.0	8.00	10 G
334	30.9	3.90	0.0	2.64	0.0	0.0	10 6
335	49.9	4.80	3.27	2.93	•	1.69	10 6
336	27.3	4.00	3.29	3.12	2.57	0.62	10 6
337	70.9	3.40	0.0	0.0	0.0	0.0	20 6
237	67.A	3.60	0.0	0.0	0.0	0.0	20 6

			KONGSBERG	NORWAY				
EVENT	DISTANCE	MB	MS	MS	MS	LO/LR	COMMENT	
NO.	(DEGREES)		T = 20SEC	T = 30 SEC	T=40SEC	RATIO	9.4441.644	2
338	62.6	4.70	3.50	3.05	0.0	0.0	30 6	
339	38.9	5.50	0.0	0.0	0.0	0.0	30 6	
340	62.8	3.80	0.0	0.0	0.0	0.0	30 6	
34.1	81.7	5.40	5.30	4.88	4.46	0.0	10 6	0
343	R1.7	4.90	0.0	0.0	0.0	0.0	30 6	
744	28.2	4.10	0.0	0.0	0.0	0.0	20 6	4 3
345	70.7	4.30	0.0	0.0	0.0	0.0	30 6	
346	R1. A	4.70	3.91	3.16	0.0	0.0	10 6	
347	28.0	4.50	4.22	3.92	3.52	0.0	10 6	-
348	61.2	4.70	0.0	4.78	0.0	0.0	10 6	
349	69.2	4.40	0.0	0.0	0.0	0.0	20 6	
350	27.2	4.90	4.43	4.02	3.42	0.0	10 6	
351	111.5	4.90	4.27	4.40	4.25	0.91	10 6	
352	31.5	4.00	0.0	0.0	0.0	0.0	30 6	11
412	81.7	5.00	4.42	3.70	0.0	2.68	10 6	7
413	61.7	3.60	0.0	0.0	0.0	0.0	10 6	4 11 2
414	44.3	3.70	3.29	0.0	0.0	0.0	10 6	
415	40.9	4.00	0.0	0.0	0.0	0.0	20 6	W
416	50.0	5.50	4.56	4.08	3.52	7.08	10 6	
4 17	63.7	3.20	0.0	0.0	0.0	0.0	30 6	
418	66.1	4.40	0.0	0.0	0.0	0.0	20 K	
419	50.0	5.40	4.36	3.68	3.15	5.18	10 6	
420	22.6	3.50	0.0	0.0	0.0	0.0	20 6	
421	44.3	5.10	4.65	3.86	3.47	0.0	10 6	
422	17.9	*4.60	3.01	2.72	2.43	0.77	10 6	
423	57.B	3.60	0.0	0.0	0.0	0.0	20 6	
424	62.7	4.20	0.0	0.0	0.0	0.0	20 6	
425	63.5	3.40	0.0	0.0	0.0	0.0	20 6	14
426	28.6	4.30	0.0	0.0	0.0	0.0	20 6	111
427	36.1	5.60	4.70	4.57	4.41	2.60	10 6	
428	65.0	3.90	0.0	0.0	0.0	0.0	20 6	17
429	41.4	3.90	0.0	0.0	0.0	0.0	30 6	101
430	31.9	3.70	0.0	0.0	0.0	0.0	20 6	
431	43.3	*4.60	3.73	3.28	2.89	0.0	10 6	001
467	79.9	4.10	0.0	0.0	0.0	0.0	30 6	
469	64. K	4.10	0.0	0.0	0.0	0.0	20 6	H)E
470	48.5	4.70	0.0	0.0	0.0	0.0	30 6	
471	45.1	4.20	0.0	0.0	0.0	0.0	20 6	
472	68.5	5.20	3.96	3.94	3.63	1.63	10 6	127
473	63.4	3.60	0.0	0.0	0.0	0.0	20 6	
474	43.1	3.70	0.0	0.0	0.0	0.0	20 6	Fir
475	33.0	4.70	3.84	3.33	2.89	0.0	10 6	
476	67.6	5.20	4.35	3.93	3.52	0.54	10 6	
477	48.7	3.50	0.0	0.0	0.0	0.0	20 6	EV.
479	64.1	4.00	0.0	0.0	0.0	0.0	20 6	1
1177	23.7	4.10	3.38	3.47	0.0	0.22	10 6	
491	5R.4	3.00	0.0	0.0	0.0	0.0	30 6	
482	71.4	4.20	3.65	0.0	0.0	0.44	10 6	
423	47.A	3.70	0.0	0.0	0.0	0.0	30 6	

Section 4

FVENT	DISTANCE	MB	MS	MS	MS	LOZLR	COMMENT
NO.	(DEGREES)		T = 20SEC	T=30SEC	T=40SEC	日本ですの	
484	16.0	4.40	0.0	0.0	0.0	0.0	20 6
485	82.1	3.80	0.0	0.0	0.0	0.0	30 6
486	27.4	3.90	0.0	0.0	$0.\tilde{0}$	0.0	20 6
487	40.4	4.40	0.0	0.0	0.0	0.0	20 6
488	40.5	3.90	0.0	0.0	0.0	0.0	20 6
489	40.5	3.40	0.0	0.0	0.0	0.0	20 6
490	78.6	3.90	0.0	0.0	0.0	0.0	
512	15.0	4.00	2.63	3.19	2.68	0.0	20 6
683	29.0	4.40	3.14	3.10	0.0	0.94	10 6
684	25.9	3.60	3.45	3.10	2.70		10 6
685	52.5	3.70	0.0	0.0	0.0	0.79	10 6
686	16.1	*4.30	0.0	0.0	0.0	0.0	30 e
687	57.5	5.50	4.99	4.67		0.0	20 6
688	53.7	4.20	0.0	0.0	3.86	3.40	10 6
689	57.5	5.50	4.79		0.0	0.0	50 E
690	57.4	5.50	4.61	3.96	0.0	0.57	10 6
691	64.9	4.60	3.39	3.67	0.0	7.71	10 6
692	45.1	5.50	4.24	3.34	3.00	0.0	16 6
693	52.1	3.70		4.17	0.0	0.51	10 6
694	63.4	3.50	0.0	0.0	0.0	0.0	20 6
696	40.5		0.0	0.0	0.0	0.0	20 6
697	75.8	4.40	0.0	0.0	0.0	0.0	20 6
698		4.40	3.88	3.26	0.0	0.0	10 6
699	71.0	4.80	0.0	3.88	(· · ·	0.0	30 e
700	39.1	6.20	3.78	3.11	0.0	0.0	10 6
701	47.6	11.30	0.0	0.0	0.0	0.0	30 €
702	40.1	4.00	2.0	0.0	0.0	0.0	53 f
703	45.4	5.50	5.50	4.87	4.41	0.0	10 6
704	45.8	3.80	2.79	2.78	0.0	<b>^.</b> 0	13.6
705	26.5	5.20	4.15	0.0	0.0	0.77	10 6
	44.5	4.20	0.0	0.0	0.0	0.0	30 E
706 707	29.9	3.70	0.0	0.0	(, • )	0.0	30 6
709	27.0	4.30	0.0	0.0	0.0	0.0	50 6
	61.5	*4.50	3.70	3.74	0.0	1.08	10 6
709	42.6	4.10	0.0	0.0	0.0.	0.0	23 6
710	70.9	4.30	4.23	3.37	0.0	1.09	10 K
711	80.5	*5.30	4.72	4.37	0.0	2.76	10 6
712	45.6	4.30	0.0	0.0	0.0	0.0	30 F.
713	64.6	4.50	4.61	•	0.0	0.0	13 6
714	26.7	4.60	0.0	0.0	0.0	0.0	30 E
715	68.5	3.70	0.0	0.0	0.0	0.0	20 6
716	79.8	5.50	5.73	4.83	0.0	1.19	10 6
717	22.7	4.20	0.0	0.0	0.0	0.0	20 6
718	43.3	4.70	0.0	3.56	0:.0	0.0	13 6
720	66.6	3.60	0.0	0.0	0.0	0.0	30 (
721	60.2	3.80	0.0	0.0	0.0	0.0	32 1.
722	44.5	3.80	0.0	0.0	0.0	0.0	20 6
723	62.8	4.80	4.84	3.87	0.0	6.28	10 6
724	69.5	3.70	0.0	0.0	0.0	0.0	216
725	55.2	3.90	0.0	0.0	0.0	0.0	10 K

EVENT NO.	DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
726	82.1	4.10	4 37				
727	42.3	3.90	4.37	4.00	0.0	0.63	10 6
728	30.0	4.50	0.0	0.0	0.0	0.0	20 6
729 .	45.6		2.64	2.58	0.0	4.88	13 6
730	26.3	3.90	0.0	0.0	0.0	0.0	30 6
731	34.9	3.80	0.0	0.0	0.0	0.0	30 6
732	67.7	3.90	0.0	0.0	0.0	0.0	30 6
733	26.4	4.40	3.91	3.53	0.0	2.99	10 6
734	23.3	3.70	0.0	0.0	0.0	0.0	20 6
735	71.8	4.30	3.52	2.68	0.0	8.19	10 6
736	70.6	4.00	0.0	0 ,, 0	0.0	0.0	50 6
737	65.2	3.70	0.0	0.0	0.0	0.0	20 6
738		4.60	3.62	3.62	0.0	0.0	10 6
739	70.2	3.90	0.0	0.0	0.0	0.0	30 6
741	70.1	4.00	0.0	3.00	0.0	0.0	13 6
742	21.7	*4.80	3.46	3.29	2.92	0.0	10 6
743	39.7	4.00	0.0	0.0	0.0	0.0	10 6
743	46.5	4.00	0.0	0.0	0.0	0.0	30 6
745	79.9	5.70	5.51	5.44	4.73	0.72	10 6
746	80.6	4.40	0.0	0.0	0.0	0.0	30 6
746	26.8	3.60	0.0	0.0	0.0	0.0	23 6
	28.8	4.10	0.0	0.0	0.0	0.0	
748	45.6	4.00	0.0	0.0	0.0	0.0	30 6
749	47.1	4.00	0.0	0.0	0.0	0.0	30 6
751	22.3	4.30	3.55	3.36	2.86	0.92	30 6
752	20.9	5.40	4.23	3.83	3.34	1.14	10 6
753	23.6	4.70	0.0	0.0	0.0	0.0	20 6
754	40.1	3.70	0.0	0.0	0, 0	0.0	20 6
755	30.8	5.20	0.0	0.0	0.0	0.0	30 6
756	65.3	3.40	0.0	0.0	0.0	0.0	23 6
757	60.7	3.90	0.0	0.0	0.0	0.0	20 6
758	52.7	5.10	4.52	3.70	3.55	0.0	30 6
759	22.7	4.00	0.0	0.0	0.0	0.0	10 6
760	43.1	5.60	3.77	3.31	0.0	8.04	30 6
761	65.6	5.20	3.82	3.88	3.24	0.39	13 6
762	16.8	4.90	3.78	3.58	3.13	2.61	10 6
763	29.1	3.90	0.0	0.0	0.0	0.0	10 6
764	64.7	4.70	0.0	0.0	0.0	0.0	30 6
765	28.5	4.80	0.0	0.0	0.0		30 6
766	62.9	3.60	0.0	0.0	0.0	0.0	30 6
767	29.7	4.40	0.0	0.0	0.0	0.0	20 6
768	45.8	3.60	0.0	0.0	0.0	0.0	23 6
769	45.8	4.10	0.0	0.0	0.0	0.0	30 6
770	43.7	3.60	0.0	0.0	0.0	0.0	30 6
771	15.7	*4.40	3.29	2.78	0.0	0.0	20 6
772	65.2	3.90	0.0	0.0	0.0	2.17	10 6
773	17.1	3.90	2.98	0.0	0.0	0.0	30 6
774	41.9	4.70	0.0	2.74	0.0	2.45	13 6
775	39.3	5.40	4.92	4.31	3.97	0.0	20 6
776	63.3	4.80	3.94	0.0	0.0	1.20	10 6
				• •	0.0	1.38	13 6

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATTO	COMMENT
777	78.6	4.10	0.0	0.0	0.0	0.0	20 6
778	26.8	5.10	3.73	3.59	2.87	0.0	10 6
779	78.9	3.60	0.0	0.0	0.0	0.0	20 6
780	68.0	3.90	0.0	0.0	0.0	0.0	20 6
781	44.9	5.00	0.0	3.81	3.75	0.0	10 6
782	68.2	4.00	0.0	0.0	0.0	0.0	20 6
783	64.2	4.40	0.0	0.0	0.0	0.0	20 6
784	69.9	4.10	0.0	0.0	0.0	0.0	23 6
785	76.7	5.30	4.55	4.21	3.66	1.10	10 6
786	27.0	4.30	0.0	3.03	0.0	2.17	10 6
787	78.8	3.70	0.0	0.0	0.0	0.0	20 6
788	46.6	3.90	0.0	0.0	0.0	0.0	20 6
789	78.8	4.20	0.0	0.0	0.0	0.0	30 6
790	78.7	4.70	4.33	3.89	0.0	2.12	10 6
791	63.1	3.70	0.0	0.0	0.0	0.0	20 6
793	43.5	4.10	0.0	0.0	0.0	0.0	20 6
849	18.0	3.70	0.0	0.0	0.0	0.0	20 6
850	62.6	4.10	0.0	0.0	0.0	0.0	20 6
851	63.5	4.10	0.0	0.0	0.0	0.0	20 6
852	68.0	4.10	0.0	0.0	0.0	0.0	20 6
853	66.7	3.90	0.0	0.0	0.0	0.0	20 6
854	52.4	3.80	0.0	0.0	0.0	0.0	20 6
855	46.6	4.00	0.0	0.0	0.0	0.0	20 6
856	22.0	3.70	2.94	2.88	0.0	0.0	10 6
857	65.2	4.80	3.87	3.30	3.09	0.88	10 6
858	69.9	4.70	4.10	0.0	0.0	0.0	16 6
859	64.8	5.70	5.24	5.30	4.88	0.24	10 6
860	65.2	3.50	0.0	0.0	0.0	0.0	30 6
861	53.1	3.60	0.0	0.0	0.0	0.0	20 6
862	42.7	4.60	0.0	0.0	0.0	0.0	20 6
863	22.8	3.60	3.61	0.0	0.0	0.0	10 6
864	69.7	4.00	0.0	0.0	0.0	0.0	30 6
865	38.7	4.50	0.0	0.0	0.0	0.0	30 6
866	20.1	3.50	0.0	0.0	0.0	0.0	20 6
867	68.2	4.10	3.36	0.0	0.0	0.0	16 6
868	62.4	4.30	0.0	0.0	0.0	0.0	30 6
869	65.3	4.30	0.0	0.0	0.0	0.0	20 6
870	57.2	4.10	0.0	0.0	0.0	0.0	20 6
871	71.1	3.80	0.0	0.0	0.0	0.0	30 h
872	37.5	3.80	0.0	0.0	0.0	0.0	20 6
873	55.5	4.50	0.0	0.0	0.0	0.0	23 6
874	21.7	4.40	0.0	0.0	0.0	0.0	20 6
875	55.6	4.90	4.89	4.12	0.0	0.0	10 6
878	64.1	3.50	0.0	0.0	0.0	0.0	20 6
879	63.8	3.60	0.0	0.0	0.0	0.0	20 6
880	22.5	4.30	0.0	0.0	0.0	0.0	30 h
881	57.8	5.20	3.78	3.79	0.0	2.21	10 6
882	66.2	4.10	0.0	0.0	0.0	0.0	20 6
883	53.2	3.70	0.0	0.0	0.0	0.0	30 6

BBB         43.8         5.50         4.48         3.87         3.72         0.0         10.6           BBF         43.5         4.80         0.0         0.0         0.0         0.0         20.6           BBF         43.3         4.80         0.0         0.0         0.0         0.0         20.6           BBB         46.4         3.50         0.0         0.0         0.0         0.0         20.6           BBB         66.4         3.50         0.0         0.0         0.0         0.0         20.6           848         66.4         3.50         0.0         0.0         0.0         0.0         20.6           849         22.1         3.40         0.0         0.0         0.0         0.0         20.6           891         25.3         4.00         0.0         0.0         0.0         0.0         0.0         20.6           801         65.7         3.90         0.0         0.0         0.0         0.0         0.0         20.6           895         84.9         4.90         4.06         3.43         3.07         1.02         10.6           896         84.9         4.00         4.06	PVPNT NO.	DISTANCE (DEGREES)	MR	MS T=20SFC	45 T=305EC	MS T=40SEC	LO/LR RATTO	COPHENT
885         43.5         4.80         0.0         0.0         0.0         0.0         20.6           887         43.3         4.70         0.0         0.0         0.0         0.0         20.6           888         66.4         3.50         0.0         0.0         0.0         0.0         20.6           889         62.1         3.40         0.0         0.0         0.0         0.0         20.6           891         25.1         5.30         5.19         4.59         0.0         1.41         10.6           891         25.1         5.30         5.19         4.59         0.0         1.41         10.6           891         25.1         5.30         5.19         4.59         0.0         1.41         10.6           891         25.1         5.30         0.0         0.0         0.0         1.0         20.6           891         44.0         4.00         0.0         0.0         0.0         0.0         20.0         10.6           893         4.7         4.80         0.0         0.0         0.0         0.0         0.0         20.0         10.6           894         44.0         0.0 <td>0.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	0.00							
886         87.4         3.80         0.0         0.0         0.0         0.0         0.0         30.6         0.0         0.0         0.0         0.0         30.6         0.0								
887         8.3         4.70         0.0         0.0         0.0         0.0         30         6           888         66.4         3.50         0.0         0.0         0.0         0.0         20         6           889         62.3         3.40         0.0         0.0         0.0         0.0         0.0         20         6           990         25.1         5.30         5.19         4.59         0.0         0.0         0.0         0.0         20         6           801         25.9         4.00         0.0         0.0         0.0         0.0         20         6         30         30         6         30         30         6         30         30         6         30         30         6         30         30         6         30         30         6         30         30         6         30         30         6         30         30         6         30         30         30         6         30         30         30         30         30         6         30         30         30         30         30         30         30         30         30         30         30								
889         66.4         3.50         0.0         0.0         0.0         0.0         0.0         20.6<								
990							50% G 15 HE 15	
940 25.1 5.30 5.19 4.59 0.0 1.41 10.6  941 25.9 4.00 0.0 0.0 0.0 0.0 0.0 20.6  880 65.7 3.90 0.0 0.0 0.0 0.0 0.0 20.6  880 65.7 3.90 0.0 0.0 0.0 0.0 0.0 20.6  880 65.7 4.80 0.0 0.0 0.0 0.0 0.0 20.6  880 65.7 4.80 0.0 0.0 0.0 0.0 0.0 20.6  880 65.7 4.80 0.0 0.0 0.0 0.0 0.0 0.0 30.6  880 65.7 4.50 0.0 0.0 0.0 0.0 0.0 0.0 30.6  880 65.7 4.50 0.0 0.0 0.0 0.0 0.0 0.0 30.6  880 65.7 4.50 0.0 0.0 0.0 0.0 0.0 0.0 30.6  880 65.7 4.50 0.0 0.0 0.0 0.0 0.0 0.0 30.6  880 65.7 4.50 0.0 0.0 0.0 0.0 0.0 0.0 30.6  880 65.7 4.50 0.0 0.0 0.0 0.0 0.0 0.0 30.6  880 65.7 4.50 0.0 0.0 0.0 0.0 0.0 0.0 30.6  880 65.7 4.50 0.0 0.0 0.0 0.0 0.0 0.0 30.6  880 65.7 4.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30.6  880 65.7 1.1 4.60 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30.6  880 65.8 5.20 0.0 3.98 3.58 0.0 0.0 0.0 0.0 0.0 30.6  880 65.8 5.20 0.0 3.98 3.58 0.0 0.0 0.0 0.0 0.0 0.0 30.6  880 65.8 5.20 0.0 3.99 3.58 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.								
1991   25.9   4.00   0.0   0.0   0.0   0.0   0.0   20   6     1993   67.6   4.70   0.0   0.0   0.0   0.0   0.0   30   6     1995   144.0   4.90   4.06   3.43   3.07   1.02   10   6     1996   144.0   4.90   4.06   3.43   3.07   1.02   10   6     1997   144.0   4.90   4.06   3.43   3.07   1.02   10   6     1998   144.0   4.90   4.06   3.43   3.07   1.02   10   6     1999   144.0   4.90   4.06   3.43   3.07   1.02   10   6     1999   144.0   4.90   4.06   3.43   3.07   1.02   10   6     1999   144.0   4.90   4.06   3.43   3.07   1.02   10   6     1999   144.0   4.90   4.06   3.43   3.07   1.02   10   6     1999   144.0   4.90   4.06   3.43   3.07   1.02   10   6     1999   144.0   4.90   4.06   3.43   3.07   1.02   10   6     1999   144.0   4.90   4.06   3.43   3.67   1.50   10   6     1999   144.0   4.30   0.0   0.0   0.0   0.0   0.0   20   6     1901   144.1   3.90   0.0   0.0   0.0   0.0   0.0   20   6     1902   143.3   3.70   0.0   0.0   0.0   0.0   0.0   20   6     1903   141.0   3.90   3.12   0.0   0.0   0.0   0.0   20   6     1904   144.1   3.90   0.0   0.0   0.0   0.0   0.0   20   6     1904   144.1   3.90   0.0   0.0   0.0   0.0   0.0   20   6     1905   144.4   3.80   0.0   0.0   0.0   0.0   0.0   20   6     1906   144.4   3.80   0.0   0.0   0.0   0.0   0.0   20   6     1907   140.6   14.20   0.0   0.0   0.0   0.0   0.0   20   6     1908   144.0   14.0   14.0   0.0   0.0   0.0   0.0   0.0   20   6     1918   144.0   14.60   14.60   0.0   0.0   0.0   0.0   0.0   20   6     1919   144.1   3.80   0.0   0.0   0.0   0.0   0.0   20   6     1910   144.5   3.80   0.0   0.0   0.0   0.0   0.0   20   6     1910   144.5   3.80   0.0   0.0   0.0   0.0   0.0   20   6     1911   144.0   13.80   0.0   0.0   0.0   0.0   0.0   20   6     1914   145.5   3.80   0.0   0.0   0.0   0.0   0.0   20   6     1915   145.6   14.80   0.0   0.0   0.0   0.0   0.0   20   6     1916   146.6   14.80   0.0   0.0   0.0   0.0   0.0   20   6     1917   148.1   3.80   0.0   0.0   0.0   0.0   0.0   0.0   20   6     1918   144.0   14.0   14.								
803         67.6         4.70         0.0         0.0         0.0         0.0         30.6           804         65.7         3.90         0.0         0.0         0.0         0.0         20.6           895         44.0         4.90         4.06         3.43         3.07         1.02         10.6           897         48.0         0.0         0.0         0.0         0.0         10.6         10.6           897         23.1         5.00         4.27         3.84         3.36         1.50         10.6           899         62.5         4.30         0.0         0.0         0.0         0.0         20         10.6           899         62.5         4.30         0.0         0.0         0.0         0.0         20         10.6           800         48.1         3.90         0.0         0.0         0.0         0.0         20.6         20.6         20.0         20.6         20.0         20.0         10.6         20.0         20.0         10.6         20.0         20.0         10.6         20.0         20.0         20.0         20.6         20.0         20.0         20.0         20.0         20.0         20.0								
894         65.7         3.90         0.0         0.0         0.0         0.0         20 6           895         84.0         4.90         4.06         3.43         3.07         1.02         10 6           896         86.7         4.80         0.0         0.0         0.0         0.0         30 6         1.50         10 6           897         23.1         5.00         4.27         3.84         3.36         1.50         10 6         89           899         62.5         4.30         0.0         0.0         0.0         0.0         20 6         20 10 6         90								
895         84.0         4.90         4.06         3.43         3.07         1.02         10 6           896         86.7         4.80         0.0         0.0         0.0         30.0         31.6         1.50         10 6           899         39.7         4.40         0.0         3.59         0.0         2.20         10 6           899         62.5         4.30         0.0         0.0         0.0         0.0         20 6           901         65.3         3.80         0.0         0.0         0.0         0.0         20 6           902         43.3         3.70         0.0         0.0         0.0         0.0         20 6           903         81.0         3.90         3.12         0.0         0.0         0.0         20 6           903         81.1         3.90         3.12         0.0         0.0         0.0         20 6           903         81.2         3.80         0.0         0.0         0.0         0.0         20 6           903         81.0         3.90         3.12         0.0         0.0         0.0         0.0         20 6           907         40.6         4.6 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
896         84.7         4.80         0.0         0.0         0.0         0.0         30.6           897         23.1         5.00         4.27         3.84         3.36         1.50         10.6           899         62.5         4.30         0.0         0.0         0.0         0.0         20.6           901         65.3         3.80         0.0         0.0         0.0         0.0         20.6           902         43.3         3.70         0.0         0.0         0.0         0.0         50.6           903         41.0         3.90         3.12         0.0         0.0         0.0         10.6           903         41.0         3.90         3.12         0.0         0.0         0.0         10.6           904         61.1         3.90         0.0         0.0         0.0         0.0         20.6           905         48.4         3.80         0.0         0.0         0.0         0.0         20.6           907         40.6         4.20         0.0         0.0         0.0         0.0         20.6           907         40.6         4.20         0.0         0.0         0.0								
807         23.1         5.00         4.27         3.84         3.36         1.50         10.6           809         39.7         4.40         0.0         3.59         0.0         2.20         10.6           809         62.5         4.30         0.0         0.0         0.0         0.0         20.6           901         65.3         3.80         0.0         0.0         0.0         0.0         20.6           902         43.3         3.70         0.0         0.0         0.0         0.0         20.6           903         41.0         3.90         3.12         0.0         0.0         0.0         10.6           904         60.1         3.90         0.0         0.0         0.0         0.0         20.6           905         48.4         3.80         0.0         0.0         0.0         0.0         20.6           907         40.6         4.20         0.0         0.0         0.0         0.0         20.6           909         52.0         5.10         0.0         0.0         0.0         0.0         20.6           909         52.0         4.70         0.0         0.0         0.0								
900         39.7         4.40         0.0         3.59         0.0         2.20         10 6           809         62.5         4.30         0.0         0.0         0.0         0.0         20 6           901         65.3         3.80         0.0         0.0         0.0         0.0         50 6           902         43.3         3.70         0.0         0.0         0.0         0.0         20 6           903         41.0         3.90         3.12         0.0         0.0         0.0         10 6           903         41.0         3.90         3.12         0.0         0.0         0.0         10 6           904         64.1         3.90         0.0         0.0         0.0         0.0         20 6           905         48.4         3.80         0.0         0.0         0.0         0.0         20 6           907         40.6         4.20         0.0         0.0         0.0         0.0         20 6           909         52.0         5.10         0.0         0.0         0.0         0.0         20 6           909         52.0         4.70         0.0         0.0         0.0								
809         62.5         4.30         0.0         0.0         0.0         20 6           900         44.1         3.90         0.0         0.0         0.0         0.0         20 6           901         65.3         3.80         0.0         0.0         0.0         0.0         20 6           902         43.3         3.70         0.0         0.0         0.0         0.0         20 6           903         41.0         3.99         3.12         0.0         0.0         0.0         20 6           903         41.0         3.99         3.12         0.0         0.0         0.0         20 6           904         68.1         3.90         0.0         0.0         0.0         0.0         20 6           906         40.5         3.60         0.0         0.0         0.0         0.0         20 6           907         40.6         4.20         0.0         0.0         0.0         0.0         20 6           909         52.0         5.10         0.0         0.0         0.0         0.0         20 6           909         52.0         4.50         0.0         0.0         0.0         0.0								
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911       49.9       5.10       4.46       3.85       0.0       1.81       10.6         912       26.0       4.50       0.0       0.0       0.0       0.0       20.6         913       50.2       3.70       0.0       0.0       0.0       0.0       20.6         914       60.4       4.60       0.0       0.0       0.0       0.0       20.6         915       46.6       4.80       0.0       0.0       0.0       0.0       20.6         915       46.6       4.50       0.0       3.41       3.03       3.25       17.6         917       3a.1       3.80       0.0       0.0       0.0       0.0       0.0       20.6         919       46.1       3.60       0.0       0.0       0.0       0.0       20.6         919       46.1       3.60       0.0       0.0       0.0       0.0       10.6         926       51.1       4.90       4.15       3.40       0.0       0.0       10.6         927       27.3       4.60       3.83       3.12       0.0       3.05       10.6         929       47.1       5.10       4.59								
912 26.0 4.50 0.0 0.0 0.0 0.0 20 6 913 50.2 3.70 0.0 0.0 0.0 0.0 20 6 914 50.4 4.60 0.0 0.0 0.0 0.0 0.0 20 6 915 46.6 4.50 0.0 3.44 3.03 3.25 17 6 917 38.1 3.80 0.0 0.0 0.0 0.0 0.0 20 6 918 46.5 5.00 4.36 3.84 3.31 1.01 10 6 919 46.1 3.60 0.0 0.0 0.0 0.0 0.0 50 6 926 51.1 4.90 4.15 3.40 0.0 0.0 10 50 6 927 27.3 4.60 3.83 3.12 0.0 3.05 10 6 928 70.4 3.40 0.0 0.0 0.0 0.0 20 6 930 48.0 4.50 0.0 0.0 0.0 0.0 0.0 20 6 931 45.1 5.10 4.59 3.76 0.0 1.19 10 6 932 47.1 5.10 4.59 3.76 0.0 1.19 10 6 933 48.0 4.50 0.0 0.0 0.0 0.0 20 6 934 45.0 3.70 0.0 0.0 0.0 0.0 20 6 935 53.4 4.70 3.72 3.02 0.0 0.0 20 6 931 23.4 4.70 3.72 3.02 0.0 0.0 10 6 931 23.4 4.70 3.72 3.02 0.0 0.0 10 6 931 23.4 4.70 3.72 3.02 0.0 0.0 10 6 933 26.4 3.70 0.0 0.0 0.0 0.0 0.0 10 6 934 26.4 3.70 0.0 0.0 0.0 0.0 0.0 10 6 935 71.1 4.00 0.0 0.0 0.0 0.0 0.0 20 6 937 66.8 5.20 0.0 3.98 3.54 0.85 10 6								
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914								
915         46,6         4,80         0.0         0.0         0.0         0.0         50.6           916         46.6         4,50         0.0         3.41,         3.03         3.25         17.6           917         38.1         3.80         0.0         0.0         0.0         0.0         20.6           918         46.6         5.00         4.36         3.84         3.31         1.01         10.6           919         46.1         3.60         0.0         0.0         0.0         0.0         0.0         50.6           926         51.1         4.90         4.15         3.40         0.0         0.0         0.0         10.6         50.6           927         27.3         4.60         3.83         3.12         0.0         3.05         10.6         <								
916         46.6         4.50         0.0         3.41,         3.03         3.25         17.6           917         38.1         3.80         0.0         0.0         0.0         0.0         20.6           918         46.6         5.00         4.36         3.84         3.31         1.01         10.6           919         46.1         3.60         0.0         0.0         0.0         0.0         50.6           926         51.3         4.90         4.15         3.40         0.0         0.0         0.0         10.6           927         27.3         4.60         3.83         3.12         0.0         3.05         10.6           928         70.4         3.40         0.0         0.0         0.0         0.0         20.6           929         47.1         5.10         4.59         3.76         0.0         1.19         10.6           930         48.0         4.50         0.0         0.0         0.0         0.0         30.6           931         51.0         3.70         0.0         0.0         0.0         0.0         20.6           933         23.4         4.70         3.72 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
317         38.1         3.80         0.0         0.0         0.0         0.0         20 6           318         46.5         5.00         4.36         3.84         3.31         1.01         10 6           919         46.1         3.60         0.0         0.0         0.0         0.0         50 6           926         51.3         4.90         4.15         3.40         0.0         0.0         10 6           927         27.3         4.60         3.83         3.12         0.0         3.05         10 6           928         70.4         3.40         0.0         0.0         0.0         0.0         20 6           929         47.1         5.10         4.59         3.76         0.0         1.19         10 6           930         48.0         4.50         0.0         0.0         0.0         0.0         30 6           931         51.0         3.70         0.0         0.0         0.0         0.0         20 6           931         23.4         4.70         3.72         3.02         0.0         0.0         10 6           931         23.4         4.70         3.72         3.02								
018       46.6       5.00       4.36       3.84       3.31       1.01       10 6         919       46.1       3.60       0.0       0.0       0.0       0.0       0.0       50 6         926       51.1       4.90       4.15       3.40       0.0       0.0       0.0       10 6         927       27.3       4.60       3.83       3.12       0.0       3.05       10 6         928       70.4       3.40       0.0       0.0       0.0       0.0       20 6         929       47.1       5.10       4.59       3.76       0.0       1.19       10 6         930       48.0       4.50       0.0       0.0       0.0       0.0       30 6         931       51.0       3.70       0.0       0.0       0.0       0.0       30 6         931       51.0       3.70       0.0       0.0       0.0       0.0       10 6         933       23.4       4.70       3.72       3.02       0.0       0.0       10 6         934       26.4       3.70       0.0       0.0       0.0       0.0       0.0       20 6         935       71.1								
919         46.1         3.60         0.0         0.0         0.0         0.0         50.6           926         51.3         4.90         4.15         3.40         0.0         0.0         10.6           927         27.3         4.60         3.83         3.12         0.0         3.05         10.6           928         70.4         3.40         0.0         0.0         0.0         0.0         20.6           929         47.1         5.10         4.59         3.76         0.0         1.19         10.6           930         48.0         4.50         0.0         0.0         0.0         0.0         30.6           931         51.0         3.70         0.0         0.0         0.0         0.0         30.6           932         63.6         5.30         0.0         0.0         0.0         0.0         20.6           933         23.4         4.70         3.72         3.02         0.0         0.0         10.6           934         36.4         3.70         0.0         0.0         0.0         0.0         10.6           935         71.1         4.00         0.0         0.0         0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
926         51.3         4.90         4.15         3.40         0.0         0.0         10 6           927         27.3         4.60         3.83         3.12         0.0         3.05         10 6           928         70.4         3.40         0.0         0.0         0.0         0.0         20 6           929         47.1         5.10         4.59         3.76         0.0         1.19         10 6           930         48.0         4.50         0.0         0.0         0.0         0.0         30 6           931         51.0         3.70         0.0         0.0         0.0         0.0         20 6           932         63.6         5.30         0.0         4.13         3.55         0.50         10 6           931         23.4         4.70         3.72         3.02         0.0         0.0         10 6           931         23.4         4.70         3.72         3.02         0.0         0.0         10 6           933         23.4         4.70         3.72         3.02         0.0         0.0         10 6           934         70.4         3.90         0.0         0.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
327         27.3         4.60         3.83         3.12         0.0         3.05         10 6           928         70.4         3.40         0.0         0.0         0.0         0.0         20 6           929         47.1         5.10         4.59         3.76         0.0         1.19         10 6           930         48.0         4.50         0.0         0.0         0.0         0.0         30 6           931         51.0         3.70         0.0         0.0         0.0         0.0         20 6           932         63.6         5.30         0.0         4.13         3.55         0.50         10 6           933         23.4         4.70         3.72         3.02         0.0         0.0         10 6           934         26.4         3.70         0.0         0.0         0.0         0.0         10 6           935         71.1         4.00         0.0         0.0         0.0         0.0         20 6           937         66.8         5.20         0.0         3.98         3.54         0.85         10 6           938         46.3         4.00         0.0         0.0         0.		51 1						
928         70.4         3.40         0.0         0.0         0.0         0.0         20.6           929         47.1         5.10         4.59         3.76         0.0         1.19         10.6           930         48.0         4.50         0.0         0.0         0.0         0.0         30.6           931         51.0         3.70         0.0         0.0         0.0         0.0         20.6           932         63.6         5.30         0.0         4.13         3.55         0.50         10.6           931         23.4         4.70         3.72         3.02         0.0         0.0         10.6           931         23.4         4.70         3.72         3.02         0.0         0.0         10.6           931         23.4         4.70         3.72         3.02         0.0         0.0         10.6           931         23.4         4.70         3.72         3.02         0.0         0.0         10.6           935         71.1         4.00         0.0         0.0         0.0         0.0         20.6           937         66.8         5.20         0.0         3.98         3								
929         47.1         5.10         4.59         3.76         0.0         1.19         10.6           930         48.0         4.50         0.0         0.0         0.0         0.0         30.6           931         51.0         3.70         0.0         0.0         0.0         0.0         20.6           932         63.6         5.30         0.0         4.13         3.55         0.50         10.6           933         23.4         4.70         3.72         3.02         0.0         0.0         10.6           934         26.4         3.70         0.0         0.0         0.0         0.0         50.6           935         71.1         4.00         0.0         0.0         0.0         0.0         20.6           937         66.8         5.20         0.0         3.98         3.54         0.85         10.6           938         46.0         4.00         0.0         0.0         0.0         0.0         20.6								
930         48.0         4.50         0.0         0.0         0.0         0.0         30.6           931         51.0         3.70         0.0         0.0         0.0         0.0         20.6           932         63.6         5.30         0.0         4.13         3.55         0.50         10.6           933         23.4         4.70         3.72         3.02         0.0         0.0         10.6           934         26.4         3.70         0.0         0.0         0.0         0.0         50.6           935         71.1         4.00         0.0         0.0         0.0         0.0         20.6           937         66.8         5.20         0.0         3.98         3.54         0.85         10.6           938         46.0         4.00         0.0         0.0         0.0         0.0         20.6								
931         51.0         3.70         0.0         0.0         0.0         0.0         20.6           932         63.6         5.30         0.0         4.13         3.55         0.50         10.6           933         23.4         4.70         3.72         3.02         0.0         0.0         10.6           934         26.4         3.70         0.0         0.0         0.0         0.0         50.6           935         71.1         4.00         0.0         0.0         0.0         0.0         20.6           936         70.4         3.90         0.0         0.0         0.0         0.0         20.6           937         66.8         5.20         0.0         3.98         3.54         0.85         10.6           938         46.3         4.00         0.0         0.0         0.0         0.0         20.6		49.7	4.50					
932       63.6       5.30       0.0       4.13       3.55       0.50       10 6         933       23.4       4.70       3.72       3.02       0.0       0.0       10 6         934       26.4       3.70       0.0       0.0       0.0       0.0       50 6         935       71.1       4.00       0.0       0.0       0.0       0.0       20 6         936       70.4       3.90       0.0       0.0       0.0       0.0       20 6         937       66.8       5.20       0.0       3.98       3.54       0.85       10 6         938       46.3       4.00       0.0       0.0       0.0       0.0       20 6		51 0						
933       23.4       4.70       3.72       3.02       0.0       0.0       10.6         934       26.4       3.70       0.0       0.0       0.0       0.0       0.0       50.6         935       71.1       4.00       0.0       0.0       0.0       0.0       20.6         936       70.4       3.90       0.0       0.0       0.0       0.0       20.6         937       66.8       5.20       0.0       3.98       3.54       0.85       10.6         938       46.3       4.00       0.0       0.0       0.0       0.0       20.6		63.6						
934     26.4     3.70     0.0     0.0     0.0     0.0     0.0       935     71.1     4.00     0.0     0.0     0.0     0.0     20.6       936     70.4     3.90     0.0     0.0     0.0     0.0     20.6       937     66.8     5.20     0.0     3.98     3.54     0.85     10.6       938     46.3     4.00     0.0     0.0     0.0     0.0     20.6				3.70				
935 71.1								
936 77.4 3.90 0.0 0.0 0.0 0.0 20 6 937 66.8 5.20 0.0 3.98 3.54 0.85 10 6 938 46.3 4.00 0.0 0.0 0.0 0.0 20 6								
937 66.8 5.20 0.0 3.98 3.54 0.85 10 6 938 46.3 4.00 0.0 0.0 0.0 0.0 20 6								
939 46.9 4.00 0.0 0.0 0.0 0.0 20 6								
010								
3.01 2.85 0.0 0.0 10.6								
		·	4.30	3.01	2.85	0.0	0.0	10 6

1	EVENT NO.	DISTANCE (DEGREES)	MR	MS T=20SEC	45 T=30SEC	MS 1=40SEC	LO/LP RATIO	COMMENT
1	940	46.7	5.00	0.0	0.0	0.0	0.0	20 6
	941	22.4	4.30	3.25	2.78	0.0	0.0	10 6
	942	37.7	4.50	3.92	3.20	0.0	2.47	10 6
1	943	63.3	4.50	0.0	0.0	0.0	0.0	20 6
1	944	23.4	3.90	0.0	0.0	0.0	0.0	20 6
	945	23.3	3.60	0.0	0.0	0.0	0.0	20 6
T	946	51.7	4.30	0.0	0.0	0.0	0.0	20 6
1	947	22.0	3.30	0.0	0.0	0.0	0.0	20 6
•	948	19.7	3.80	0.0	0.0	0.0	0.0	50 6
-	949	38.9	5.60	0.0	0.0	0.0	0.0	30 6
	950	63.2	4.90	4.09	3.56	3.06	0.87	10 6
44	951	69.9	3.70	0.0	0.0	0.0	0.0	20 €
	952	60.2	3.70	3.20	2.99	2.54	1.93	10 6
11	953	64.7	3.60	0.0	0.0	0.0	0.0	20 6
	954	43.2	4.90	3.86	3.46	0.0	3.59	10 6
	955	57.1	4.20	0.0	0.0	0.0	0.0	20 6
<b>67</b>	956	24.7	4.50	4.37	3.98	0.0	1.56	10.6
H	957	26.9	4.50	3.80	3.88	3.22	1.22	10 6
**	959	46.6	3.90	0.0	0.0	0.0	0.0	20 6
	959	65.6	4.60	0.0	0.0	0.0	0.0	50 6
0	961	56.9	4.30	0.0	0.0	0.0	0.0	50 P
11	962	72.1	4.10	0.0	0.0	0.0	0.0	20 6
	963	42.5	4.00	2.0	0.0	0.0	0.0	20 6
<b>[</b> ]	964	70.2	3.80	0.0	0.0	0.0	0.0	20 6
11	965	51.8	4.80	3.94	3.14	c.o	1.60	10 6
	966	42.5	5.20	4.14	4.34	0.0	1.69	10 6
F7	967	63.8	3.80	0.0	0.0	0.0	0.0	20 6
11	963	26.5	4.10	3.22	2.89	0.0	1.07	10 6
1.1	969	70.2	4.30	0.0	0.0	0.0	0.0	
	970	62.6	3.50	0.0	0.0	0.0	0.0	30 6
П	971	23.1	3.50	0.0	0.0	0.0	0.0	30 6
L	972	24.3	4.10	3.41	3.06	2.69	0.43	
	973	62.3	4.20	0.0	0.0	0.0	0.00 max 10 mm 2000	10 6
$\Gamma$	974	67.5	5.00	4.20	3.65	3.50	0.0	20 6
	975	69.7	3.60	0.0	2.0	0.0	0.0	10 6
Epsil .	976	66.8	3.80	0.0	0.0	0.0	0.0	20 6 20 6
***	977	44.9	3.50	0.0	2.0	0.0	0.0	
11	978	57.8	4.20	3.69	2.99	0.0	3.34	20 6
1.1	979	46.9	3.80	0.0	0.0	0.0		10 6
	980	20.7	*4.40	0.0	0.0	0.0	0.0	30 6 30 6
$\Pi$	981	65.3	4.00	0.0	0.0	0.0	0.0	
ll -	982	70.1	3.40	0.9	0.0	0.0	0.0	20 6
	983	24.4	4.20	4.04	3.82	3.47	0.0	20 6
	984	66.7	6.30	0.0	0.0	0.0	1.00	10 6
	985	66.9	4.90	0.0	0.0	3.0	0.0	50 6
And .	986	67.1	5.30	0.0	0.0		0.0	30 K
	987	67.1	5.50	0.0	0.0	0.0	0.0	30 6
	988	68.0	4.20	0.0	0.0	0.0	0.0	10 6
4.1	989	66.6	3.80	0.0	0.0	0.0	0.0	30 K

EVENT	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATTO	COMMENT
990	44.9	4.20	0.0	0.0	0.0	0.0	50 6
991	67.2	4.00	0.0	0.0	0.0	0.0	50 6
992	66.4	4.30	0.0	0.0	0.0	0.0	50 6
993	66.4	4.10	0.0	0.0	0.0	0.0	30 6
994	67.0	3.60	0.0	0.0	0.0	0.0	30 6
995	66.4	4.00	0.0	0.0	0.0	0.0	20 6
996	67.2	3.50	0.0	0.0	0.0	0.0	20 6
997	67.0	4.90	0.0	0.0	0.0	0.0	20 6
998	66.1	4.20	0.0	0.0	0.0	0.0	20 6
999	67.2	3.70	0.0	0.0	0.0	0.0	20 6
1000	67.1	5.20	0.0	0.0	0.0	0.0	20 6
1001	67.4	4.10	0.0	0.0	0.0	0.0	20 6
1002	67.4	3.90	0.0	0.0	0.0	0.0	20 6
1003	65.9	3.90	0.0	0.0	0.0	0.0	20 6
1004	66.2	4.50	0.0	3.39	3.22	0.0	10 6
1005	66.2	3.90	0.0	0.0	0.0	0.0	20 6
1006	67.4	3.90	0.0	0.0	0.0	0.0	20 6
1007	85.1	4.60	0.0	0.0	0.0	0.0	50 6
1008	67.4	5.50	3.89	3.55	3.04	0.0	10 6
1009	67.4	4.20	3.71	0.0	0.0	0.0	20 6
1010	67.2	4.00	3.39	0.0	0.0	0.0	20 6
1011	66.4	3.90	3.41	0.0	0.0	0.0	20 6
1012	67.4	4.50	3.58	0.0	0.0	0.0	20 6
1013	66.4	4.40	3.16	0.0	0.0	0.0	20 6
1014	65.5	3.90	3.11	0.0	0.0	0.0	20 6
1015	66.8	3.40	2.98	0.0	0.0	0.0	20 6
1016	66.2	4.60	2.83	0.0	0.0	0.0	20 6
10 17	53.5	4.20	2.99	0.0	0.0	0.0	20 6
1018	67.8	4.70	3.52	0.0	0.0	0.0	20 6 20 6
1019	66.2	4.00	3.47	0.0	0.0	0.0	50 6
1020	66.4	3.80	0.0	0.0	0.0	0.0 0.0	20 6
1021	27.6	3.90	2.38	0.0	0.0	0.0	20 6
1022	66.2	4.10	3.20	0.0	0.0	0.0	20 6
1023	66.4	3.70	1.16	0.0	0.0	0.0	20 6
1024	67.4	4.10	3.13	0.0	0.0	0.0	20 6
1025	66.4	4.20	3.38	0.0	0.0	0.0	20 6
1026	44.0	3.70	3.31 3.28	0.0	0.0	0.0	20 6
1027	66.4	3.50 3.60	2.51	0.0	0.0	0.0	20 6
1028	23.3	5.50	3.91	4.10	4.09	1.21	10 6
1029	66.7	4.60	0.0	0.0	0.0	0.0	30 6
1030	41.0	3.50	3.17	0.0	0.0	0.0	20 6
1031	69.7 66.4	4.60	3.43	0.0	0.0	0.0	20 6
1032	46.0	4.60	3.37	0.0	0.0	0.0	20 6
1033	48.4	3.70	3.40	0.0	0.0	0.0	20 6
1035	66.5	4.60	2.93	0.0	0.0	0.0	20 6
1036	66.2	4.40	3.12	0.0	0.0	0.0	20 6
10.30	66.6	3.70	3.84	0.0	0.0	0.0	20 6
1038	62.6	3.90	3.29	0.0	0.0	0.0	20 6
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EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1039	63.4	6.10	5.30	5.27	4.84	1.08	40 (
1040	68.7	4.20	3.33	0.0	0.0		10 6
1041	66.4	4.00	3.18	0.0	0.0	0.0	20 6
1042	22.0	3.70	2.45	0.0	0.0	0.0	20 6
1043	66.4	3.90	2.47	0.0	0.0	0.0	20 6
1044	44.8	3.40	2.34	0.0	0.0	0.0 0.0	20 6
1045	62.4	3.70	0.0	0.0	0.0	0.0	20 6
1049	46.6	3.60	3.06	0.0	0.0	0.0	50 6
1050	67.2	5.00	3.39	3.18	2.70	0.0	20 6
1051	48.9	3.60	3.18	0.0	0.0	0.0	10 6 20 6
1052	19.1	*3.60	2.90	2.73	0.0	0.0	
1053	45.3	5.00	3.27	0.0	0.0	0.0	10 6 20 6
1054	70.9	4.10	3.34	0.0	0 0	0.0	20 6
1055	39.3	3.60	3.16	0.0	0.0	0.0	20 6
1056	67.2	3.50	3.37	0.0	0.0	0.0	20 6
1057	64.4	3.70	3.31	0.0	0.0	0.0	20 6
1058	67.2	3.50	0.0	0.0	0.0	0.0	30 6
1059	72.1	3.90	0.0	0.0	0.0	0.0	30 A
1060	66.4	4.20	0.0	0.0	0.0	0.0	30 6
1061	66.4	4.50	0.0	0.0	0.0	0.0	50 6
1062	66.6	3.80	3.37	0.0	0.0	0.0	20 6
1063	45.4	4.00	3.01	0.0	0.0	0.0	20 6
1064	49.0	3.80	4.62	0.0	0.0	0.0	20 6
1065	67.3	4.60	4.27	3.65	0.0	0.38	10 6
1066	66.6	4.00	3.51	0.0	0.0	0.0	20 6
1067	45.3	3.50	3.43	0.0	0.0	0.0	20 6
1068	67.8	4.20	0.0	0.0	0.0	0.0	30 6
1069 10 <b>7</b> 0	64.8	3.80	3.21	0.0	0.0	0.0	20 6
1070	67.0	4.40	3.35	0.0	0.0	0.0	20 fi
1072	66.5	4.70	3.35	3.39	2.95	0.0	10 6
1073	22.2	3.10	2.76	2.74	0.0	0.0	60 6
1073	26.2	3.70	3. 12	0.0	0.0	0.0	20 6
1075	67.8	4.40	3.45	0.0	0.0	0.0	20 E
107.5	68.0 40.6	3.90	3.32	0.0	0.0	0.0	20 6
1077	66.4	3.50	0.0	0.0	0.0	0.0	30 6
1078	70.6	4.10 4.10	3.38	0.0	0.0	0.0	20 6
1079	65.3	3.60	3.24	0.0	0.0	0.0	20 6
1080	81.7	4.80	0.0	0.0	0.0	0.0	30 6
1081	25.7	4.40	4.23	3.99	3.23	2.28	10 6
1082	71.2	4.30	0.0	0.0	0.0	0.0	50 6
1083	67.1	5.70	3.34	3.28	0.0	0.0	60 6
1084	54.7	4.50	5.35	4.76	4.63	0.64	10 6
1085	66.5	6.10	3.96 5.91	3.77	0.0	0.0	10 6
1086	25.0	4.70	0.0	5.83	5.70	1.29	10 6
1087	27.3	4.00	2.90	0.0	0.0	0.0	30 6
1088	68.3	3.90	3.27	0.0	0.0	0.0	20 6
1089	68.6	3.70	3.55	0.0	0.0	0.0	20 6
1090	65.8	4.00	0.0	0.0	0.0	0.0	20 F
			V • V	0.0	0.0	0.0	30 G

EVENT NO.	DISTANCE (DEGREES)	Mгы	MS T=20SEC	MS T=30SEC	MS T=40SFC	LQ/LR RATIO	COMMENT
1091	62.8	3.70	3.21	0.0	0.0	0 0	
1092	46.8	4.20	0.0	0.0	0.0	0.0	20 6
1114	64.9	4.20	0.0	0.0	0.0	0.0	50 A
1117	65.9	4.70	3.14	0.0	0.0	0.0	50 6
1118	K5. 9	4.50	3.38	0.0	0.0	0.0	20 6
1119	25.0	4.00	3.03	0.0	0.0	0.0	20 6
1120	66.2	4.40	3.31	0.0	0.0	0.0	20 6
1121	66.4	4.50	3.55	0.0	0.0	0.0	20 6
1122	70.0	3.90	3.42	0.0	0.0	0.0 0.0	20 6
1123	66.5	4.80	0.0	0.0	0.0	0.0	20 6
1124	62.3	3.70	3.57	0.0	0.0	0.0	30 6
1125	67.0	<b>*5.30</b>	4.80	4.59	4.46	0.0	20 6
1126	69.7	3.40	3.62	0.0	0.0	0.0	10 6
1127	66.4	4.70	3.34	0.0	0.0	0.0	20 6 20 6
1128	22.2	3.50	0.0	0.0	3.96	2.0	10 6
1130	90.3	3.90	0.0	0.0	0.0	0.0	30 6
1131	83.9	4.80	0.0	0.0	0.0	0.0	30 6
1132	80.9	5.50	5.95	5.34	5.15	1.52	10 6
1133	59.2	4.10	0.0	0.0	0.0	0.0	30 6
1134	f 3. 3	3.60	3.43	0.0	0.0	0.0	20 6
1135	46.1	3.80	3.15	0.0	0.0	0.0	20 6
1136	64.9	3.90	0.0	0.0	0.0	0.0	30 6
1137	27.1	3.80	2.67	0.0	0.0	0.0	20 6
1133	60.3	4.00	3.37	3.23	0.0	0.85	10 6
1139	22.5	4.10	2.85	2.79	0.0	3.21	10 6
1140	66.4	4.10	0.0	0.0	0.0	0.0	30 6
1141	42.5	5.20	4.41	4.42	0.0	0.80	10 6
1142	70.2	4.00	3.34	0.0	0.0	0.0	20 6
1143	91.3	5.30	5.84	4.95	4.92	2.27	10 6
11411	80.A	4.30	0.0	0.0	0.0	0.0	30 h
1145 1146	37.6	4.40	0.0	0.0	0.0	0.0	30 6
1148	48.2	1.80	0.0	0.0	0.0	0.0	30 6
1149	45.4	3.60	0.0	0.0	0.0	0.0	50 6
1150	69.0	4.60	4.08	0.0	0.0	0.0	20 6
1151		3.90	3.74	0.0	0.0	0.0	20 6
1152	67.0	4.80	3.84	3.29	3.30	0.0	60 6
1153	63.2 42.0	4.70	0.0	0.0	0.0	0.0	50 6
1154	41.0	3.80	3.82	0.0	0.0	0.0	20 6
1155	43.0	3.80	3.17	0.0	0.0	0.0	20 6
1156	43.2	4.40	0.0	0.0	$0 \cdot 0$	0.0	50 K
1117	42.9	3.90 3.70	3.35	0.0	0.0	0.0	20 6
1158	69.4	5.00	0.0	0.0	0.0	0.0	50 K
1172	71.2	5.40	0.0	0.0	0.0	0.0	50 6
1173	70.6	3.90	4.31	4.41	0.0	0.0	10 6
1174	71.1	4.70	0.0	0.0	0.0	0.0	30 6
1175	71.3	4.10	0.0	0.0	0.0	0.0	30 6
1176	71.3	4.50	0.0	0.0	0.0	0.0	30 6
1177	71.2	4.20	0.0	0.0	0.0	0.0	20 6
	* • • •	7 . 7 1	0.0	0.0	0.0	0.0	30 6

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/IR RATIO	COMMENT
1178	71.6	4.60	4.39	4.29	0.0	0.69	10 0
1179	71.2	4.70	0.0	2.0	0.0	0.0	30 6
1180	71.1	5.30	4.78	3.90	0.0	4.78	10 6
1181	69.9	3.40	0.0	0.0	0.0	0.0	30 6
1182	71.1	5.47	5.32	4.97	0.0	0.0	10 6
1183	71.2	4.50	0.0	0.0	0.0	0.0	30 K
1194	70.4	3.60	0.0	2.0	0.0	0.0	30 6
1195	71.0	4.20	3.85	0.0	0.0	0.0	20 6
1186	70.9	3.50	0.0	0.0	0.0	0.0	50 6
1197	71.4	4.10	0.0	0.0	0.0	0.0	50 K
1188	70.9	3.70	0.0	0.0	0.0	0.0	30 6
1189	70.9	3.30	0.0	0.0	0.0	0.0	50 F
1190	71.1	4.40	0.0	0.0	0.0	0.0	50 6
1191	71.3	4.10	0.0	0.0	0.0	0.0	30 6
1192	70.9	4.10	3.56	0.0	0.0	0.0	30 C
1193	71.5	3.60	3.38	0.0	0.0	0.0	20 6
1194	71.1	4.20	3.31	0.0	0.0	0.0	20 6
1195	71.5	3.70	3.38	0.0	0.0	0.0	20 €
1196	71.0	4.30	0.0	0.0	0.0	0.0	50 6
1197	70.9	3.60	0.0	0.0	0.0	0.0	10 e
1198	71.2	4.90	4.28	4.03	0.0	0.0	10 6
1199	71.3	4.50	0.0	0.0	0.0	0.0	30 C
1200	84.8	4.20	3.74	0.0	0.0	0.0	20 6
1201	70.7	4.20	3.50	0.0	0.0	0.0	30 E
1202	70.9	4.20	0.0	0.0	0.0	0.0	50 6
1203	70.2	3.40	0.0	0.0	0.0	0.0	30 6
1204	69.2	3.70	3.90	0.0	0.0	0.0	20 6
1205	43.0	4.30	0.0	3.29	0.0	1.54	12.6
1207	67.4	3.60	0.0	0.0	0.0	0.0	20 F
1209	71.2	4.10	3.59	0.0	0.0	0.0	30 V
1209	71.8	3.70	0.0	0.0	0.0	0.0	34 6
1211	45.8	3.80	0.0	0.0	0.0	ე.ი	50 6
1212	65.5	4.30	0.0	0.0	0.0	0.0	50 K
1213	70.4	3.70	0.0	0.0	0.0	0.0	ዓር <u>የ</u>
1214	65.7		0.0	0.0	0.0	0.0	50 e
1215	47.4	3.60	3.78	0.0	0.0	0.0	50 E
1216	56.8	3.80	3.23	0.0	0.0	0.0	30 E
1217	71.5	3 = R()	0.0	0.0	0.0	0.0	500 6
1218	66.4	4.20	0.0	0.0	0.0	0.0	30 6
1219	46.3	3.70	0.0	0.0	0.0	0.0	50 6
1220	55.3	3.90	0.0	0.0	0.0	0.0	20 K
1221	62.2	3.80	0.0	0.0	0.0	0.0	50 (
1222	69.9	3.70	0.0	0.0	0.0	0.0	50 c
1223	65.1	5. 10	4.00	3.33	0.0	0.0	10 6
1224	46.3	3.80	7.0	0.0	0.0	0.0	30 f
1225	39.7	3.60	3.86	0.0	0.0	0.0	20 c
1226	65.3	3.70	0.0	0.0	0.0	0.0	50 K
1227	44.2	4.70	3.95	3.15	0.0	1.38	10 6
1228	46.6	3.70	0.0	0.0	0.0	0.0	30 €

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
1229	66.4	4.10	0.0	0.0	0 0		
1230	69.9	3.50	0.0	0.0	0.0	0.0	30 6
1231	46.0	5.10	0.0	0.0	0.0	0.0	50 6
1232	66.5	5.60	0.0	0.0	0.0	0.0	50 6
1233	69.2	3.20	0.0	0.0	0.0	0.0	50 6
1234	63.3	3.40	0.0	0.0	0.0	0.0	50 6
1235	69.2	3.60	0.0	0.0	0.0	0.0	50 6
1236	38.5	5.40	0.0	0.0	0.0	0.0	50 6
1237	71.8	4.20	0.0	0.0	0.0	0.0	50 6
1240	46.6	4.00	0.0	0.0	0.0	0.0	50 6
1241	48.4	3.40	0.0	0.0		0.0	50 6
1242	70.2	4.00	0.0	0.0	0.0	0.0	20 6
1243	42.5	4.20	0.0	0.0	0.0	0.0	50 6
1244	69.3	3.50	3.52	0.0	0.0	0.0	50 6
1245	62.3	3.70	0.0	0.0	0.0	0.0	20 6
1246	62.8	3.60	0.0	0.0	0.0	0.0	50 6
1247	64.4	4.00	0.0	0.0	0.0	0.0	50 6
1248	66.4	3.90	0.0	0.0	0.0 0.0	0.0	50 6
1249	69.3	4.00	0.0	0.0	0.0	0.0	50 6
1250	67.8	4.10	0.0	0.0	0.0	0.0	50 6
1251	63.9	3.90	0.0	0.0	0.0	0.0	50 6
1252	67.4	3.40	0.0	0.0	0.0	0.0	50 6
1253	72.1	3.80	0.0	0.0	0.0	0.0	30 6
1254	45.3	4.60	4.23	0.0	0.0	0.0	20 6
1255	62.1	3.60	0.0	0.0	0.0	0.0	20 6
1256	62.4	3.30	0.0	0.0	0.0	0.0	50 6
1258	71.3	3.90	0.0	0.0	0.0	0.0	50 6
1259	68.9	4.00	0.0	0.0	0.0	0.0	50 6
1260	61.5	4.80	0.0	0.0	0.0	0.0	30 6
1261	61.3	3.50	0.0	0.0	0.0	0.0	50 6
1262	62.1	3.70	0.0	0.0	0.0	0.0	50 6
1272	21.0	6.00	4.18	3.70	3.01	0.0	50 6
1273	26.1	5.20	0.0	0.0	0.0	0.0	10 6
1280	39.2	6.00	0.0	0.0	0.0	0.0 0.0	20 6 50 6

APPENDIX II-I

BASIC DATA FOR

OGDENSBURG, NEW JERSEY (OGD)

				naw onna	F. 1		
FVFVT	DISTANCE	M TR	MS	45	MS		
NO.	(DEGREES)		T=205EC	T = 305EC	T=40SPC	LQ/LR RATIO	COMMENT
•	71.6	4.10	0.0			W-1	
2	78.2	4.60	0.0	4.71	0.0	0.0	10.7
3	79.0	4.00	0.0	0.0	0.0	0.0	20 7
4	85.5	4.00	0.0	0.0	0.0	0.0	20 7
5	69.0		0.0	0.0	0.0	0.0	20 7
6.	95.0	4.20	0.0	0.0	0.0	0.0	20 7
7	76.1	5.20 4.80	0.0	0.0	0.0	0.0	30 7
я	76.0	4.50	0.0	4.34	0.0	0.0	10 7
g	77.9	3.40	0.0	0.0	0.0	0.0	20 7
10	72.4	4.30	0.0	0.0	0.0	0.0	50 7
11	114.7		0.0	0.0	0.0	0.0	20 7
12	71.4	4.80	0.0	0.0	0.0	0.0	20 7
13	114.6	4.40	0.0	0.0	0.0	0.0	20 7
14	98.6	*4.60	0.0	0.0	0.0	0.0	20 7
15	78.0	3.90	0.0	0.0	0.0	0.0	20 7
16	87.2	3.80	0.0	0.0	0.0	0.0	20 7
17	61.4	4.50	0.0	0.0	0.0	0.0	20 7
10	95.8	4.00	0.0	0.0	0.0	0.0	20 7
19	68.5	4.50	0.0	0.0	0.0	0.0	20 7
20	71.3	4.00	0.0	0.0	0.0	0.0	50 7
21	92.9	3.90	0.0	0.0	0.0	0.0	20 7
22		4.70	0.0	0.0	0.0	0.0	20 7
23	113.5	4.70	0.0	0.0	0.0	0.0	20 7
24	95.2 96.2	5.20	0.0	0.0	0.0	0.0	20 7
25	79.1	3.90	0.0	0.0	0.0	0.0	20 7
26	115.7	4.20	0.0	0.0	0.0	0.0	20 7
27		4.70	6.13	6.10	0.0	1.61	10 7
29	114.7	4.60	0.0	4.39	3.73	1.07	10 7
29		3.60	0.0	0.0	0.0	0.0	20 7
30	71.4	4.30	0.7	0.0	0.0	0.0	20 7
31	95.6	3.80	0.0	0.0	0.0	0.0	20 7
12	116.5	5.00	4.07	4.05	3.65	0.0	10 7
33	71.4	4.40	0.0	0.0	0.0	0.0	20 7
34	70.3	3.90	0.0	0.0	0.0	0.0	20 7
15	87.5	4.00	0.0	0.0	0.0	0.0	
36	75.5	4.40	0.0	0.0	0.0	0.0	20 7 20 7
37	73.2	4.90	4.09	0.0	0.0	0.30	10 7
33	71.4	4.80	4.23	0.0	3.27	1.33	10 7
39	71.6	4.00	4.23	0.0	3. 25	1.55	10 7
40	71.7	5.30	5.10	4.94	4.49	2.02	
41	60.7	3.90	3.66	0.0	0.0	1.27	10 7
42	99.5	5.10	0.0	0.0	0.0	0.0	30 7
43	79.4	3.90	0.0	0.0	0.0	0.0	30 7
11/4	80.7	4.70	0.0	0.0	0.0	0.0	20 7
45	95.2	5.40	0.0	0.0	0.0	0.0	20 7
46.	96.1	4.60	0.0	0.0	0.0	0.0	30 7
47	71.9	3.80	0.0	0.0	0.0	0.0	30 7 20 7
47	71.6	3.90	0.0	0.0	0.0	0.0	
47	75.4 85.9	4.10	0.0	0.0	0.0	0.0	
	45.4	4.80	0.0	0.0	0.0	0.0	20 7 30 7
						•••	107

	FVENT NO.	DISTANCE (DEGREES)	MP.	MS T=20SEC	45 T=305FC	MS T=40SEC	LO/LR PATTO	COMMEN
	50	85.9	4.90	0.0	0.0	0.0	0.0	20
	51	58.3	4.10	0.0	0.0	0.0	0.0	20
	52	74.4	4.80	0.0	0.0	0.0	0.0	20
	55	75.5	4.40	0.0	0.0	0.0	0.0	20
	56	76.4	4.20	0.0	0.0	0.0	0.0	30
	57	71.7	4.00	0.0	0.0	0.0	0.0	26
	59	76.6	4.00	0.0	0.0	0.0	0.0	20
	59	73.8	4.60	0.0	0.0	0.0	0.0	50
l	60	61.7	*4.20	0.0	0.0	0.0	0.0	20
	61	114.5	4.80	0.0	0.0	0.0	0.0	50
1	62	114.7	4.60	0.0	4.02	0.0	0.90	10
	63	61.7	*3.70	0.0	0.0	0.0	0.0	30
	65	70.9	3.80	0.0	4.00	0.0	0.0	10
1	66	79.6	4.10	0.0	0.0	0.0	0.0	30
	67	86.2	3.20	0.0	0.0	0.0	0.0	20
1	68	74.A	4.00	0.0	0.0	0.0	0.0	30
	69	79.6	4.80	0.0	0.0	0.0	0.0	30
			3.80	0.0	0.0	0.0	0.0	20
	70	71.6	3.80	0.0	3.41	0.0	1.09	10
	71	71.9				0.0	0.0	20
1	72	108.7	4.40	0.0	0.0			10
	73	103.2	*4.10	0.0	4.06	0.0	0.0	20
	74	102.2	4.00	0.0	0.0	0.0	0.0	50
	75	95.3	4.50	0.0	0.0	0.0	0.0	, 20
	76	92.4	4.40	0.0	0.0	0.0	0.0	
1	77	99.7	4.00	0.0	0.0	0.0	0.0	50
	78	78.8	3.80	0.0	0.0	0.0	0.0	20
1	79	101.2	4.70	0.0	0.0	0.0	0.0	20
	60	99.3	3.90	0.0	0.0	0.0	0.0	50
	81	96.9	3.90	0.0	3.88	0.0	0.76	10
	82	71.6	4.10	0.0	0.0	0.0	0.0	20
	83	71.4	3.60	0.0	0.0	0.0	0.0	20
1	84	72.0	3.70	0.0	0.0	0.0	0.0	30
	85	84.9	3.60	0.0	0.0	0.0	0.0	50
	86	76.6	3.60	0.0	0.0	0.0	0.0	20
	A7	69.3	4.60	0.0	3.38	0.0	0.71	10
	RA	A3.3	5.10	4.93	4.72	0.0	0.72	10
	89	115.5	4.50	0.0	4.27	0.0	0.47	10
	90	61.7	#4.50	4.05	3.79	0.0	0.88	10
1	92	80.8	4.80	0.0	0.0	0.0	0.0	20
	93	80.8	4.80	0.0	0.0	0.0	0.0	20
	94	61.6	4.40	3.87	0.0	0.0	0.92	10
1	95	106.0	5.20	0.0	3.92	0.0	0.53	10
	96	105.5	4.50	0.0	0.0	0.0	0.0	20
+/	97	61.7	*4.10	3.96	3.34	0.0	0.54	10
f'	99	61.7	+4.30	3.60	0.0	0.0	0.46	10
	99	61.7	+4.10	0.0	0.0	0.0	0.0	50
	100	60.9	3.60	0.0	0.0	0.0	0.0	30
	101	61.7	+4.30	0.0	0.0	0.0	0.0	30
i	102	62.2	+3.70	0.0	0.0	0.0	0.0	20

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
103	61.9	*4.00	0.0	0.0	0.0		
104	61.6	*4.30	3.71	0.0	0.0	0.0	20 7
105	61.8	*4.20	3.82	0.0	0.0	0.68	10 7
106	61.5	*4.40	0.0	3.50	0.0	0.78	10 7
107	108.3	4.10	0.0	0.0	0.0	0.72	10 7
108	94.7	4.70	0.0	0.0	0.0	0.0	20 <b>7</b>
109	90.0	4.30	0.0	0.0	0.0	0.0	20 7
110	61.6	*3.80	0.0	0.0	0.0	0.0	20 7
111	75.3	4.80	0.0	0.0	0.0	0.0	20 7
112	117.7	5,70	5.27	0.0	0.0	0.0	20 7
113	61.7	*4.30	0.0	0.0	4.69	1.20	10 7
114	114.3	4.80	0.0	0.0	0.0	0.0	20 7
122	75.3	3.90	0.0	3.58	0.0	0.0	50 7
127	84.0	4.10	0.0	0.0	0.0	0.0	10 7
128	72.4	4.50	0.0	0.0	0.0	0.0	20 7
129	94.3	4.80	0.0	0.0	0.0	0.0	50 7
130	83.4	3.70	0.0	0.0	0.0	0.0	30 7
131	87.1	4.70	3.81	0.0	0.0	0.0	20 7
132	72.6	4.00	0.0	0.0	0.0	0.32	10 7
133	86.0	5.20	0.0	4.20	0.0	0.0	20 7
134	85.8	5.40	4.98	0.0	0.0	0.28	10 7
135	102.3	3.90	0.0	0.0	4.15	0.26	10 7
136	84.1	4.20	0.0	0.0	0.0	0.0	20 7
137	99.3	3.90	0.0	0.0	0.0	0.0	20 7
138	82.9	4.10	0.0	0.0	0.0 0.0	0.0	20 7
139	73.2	4.80	0.0	0.0	0.0	0.0	20 7
140	68.7	4.00	0.0	0.0	0.0	0.0	30 7
141	96.2	5.30	4.14	4.03	0.0	0.0	20 7
142	89.5	4.10	0.0	0.0	0.0	0.60	30 7
143	73.9	3.40	3.84	2.0	0.0	0.0	20 7
144	95.3	4.00	0.0	0.0	0.0	0.0	10 7
214	95.0	4.00	0.0	0.0	0.0	0.0	20 7
216	74.8	3.70	0.0	0.0	0.0	0.0	20 7
217	110.3	3.90	0.0	0.0	0.0	0.0	20 7
218	51.9	3.70	0.0	0.0	0.0	0.0	20 7
219	72.2	3.40	0.0	0.0	0.0	0.0	30 7
220	75.6	3.50	0.0	0.0	0.0	0.0	30 7
221	69.2	3.60	0.0	0.0	0.0		20 7
222	72.0	3.60	0.0	0.0	0.0	0.0	20 7
223	47.6	*4.30	0.0	3.87	0.0	0.0 0.40	20 7
224	86.8	4.00	0.0	0.0	0.0		10 7
225	91.9	3.50	0.0	0.0	0.0	0.0	20 7
226	85.9	4.60	0.0	0.0	0.0	0.0	20 7
227	75.1	4.10	0.0	0.0	0.0	0.0	20 7
228	83.5	4.60	0.0	0.0	0.0	0.0	20 7
229	60.9	3.80	0.0	0.0	0.0	0.0 0.0	20 7
230	71.2	4.10	0.0	0.0	0.0	0.0	50 7
231	85.8	4.20	0.0	0.0	0.0	0.0	50 7 50 7
232	64.3	*4.40	0.0	0.0	0.0	0.0	50 7 50 7

EVENT	DISTANCE	MB	MS	MS	MS	LQ/LR	COMMENT
NO.	(DEGREES)		T=20SEC	T=30SEC	T=40SEC	RATTO	
233	78.7	4.50	0.0	0.0	0.0	0.0	60 7
234	83.1	4.30	0.0	0.0	0.0	0.0	50 7
235	95.3	4.50	0.0	0.0	0.0	0.0	30 7
236	94.5	4.40	0.0	0.0	0.0	0.0	50 7
237	68.0	3.60	0.0	0.0	0.0	0.0	50 7
238	95.6	5.10	0.0	0.0	0.0	0.0	30 7
239	96.1	*3.70	0.0	0.0	0.0	0.0	50 7
240	111.0	4.00	0.0	0.0	0.0	0.0	50 7
241	74.1	3.90	0.0	0.0	0.0	0.0	50 7
242	85.1	3.70	0.0	0.0	0.0	0.0	50 7
243	81.1	5.40	0.0	0.0	0.0	0.0	50 7
245	98.9	4.50	0.0	0.0	0.0	0.0	50 7
247	66.8	2.70	0.0	0.0	0.0	0.0	50 7
248	97.2	4.00	0.0	0.0	0.0	0.0	50 7
249	116.3	0.0	0.0	0.0	0.0	0.0	50 7
250	114.9	4.30	0.0	0.0	0.0	0.0	20 7
251	79.2	4.20	0.0	0.0	0.0	0.0	50 7
252	79.1	4.00	0.0	0.0	0.0	0.0	30 7
253	102.3	3.80	0.0	0.0	0.0	0.0	30 7
254	83.0	4.20	0.0	0.0	0.0	0.0	50 7
255	97.9	*4.60	0.0	0.0	0.0	0.0	50 7
256	69.2	3.50	0.0	0.0	ő.ő	0.0	50 7
257	77.5	3.30	0.0	0.0	0.0	0.0	50 7
258	83.1	3.00	0.0	0.0	0.0	0.0	50 7
259	74.0	3.60	0.0	0.0	0.0	0.0	50 7
260	86.1	5.50	0.0	0.0	0.0	0.0	50 7
261	85.2	3.70	0.0	0.0	0.0	0.0	50 7
262	99.3	4.90	0.0	0.0	0.0	0.0	60 7
263	57.3	3.80	0.0	0.0	0.0	0.0	50 7
264	71.4	3.80	0.0	0.0	0.0	0.0	50 7
265	94.6	4.20	0.0	0.0	0.0	0.0	50 7
266	54.8	3.60	0.0	0.0	0.0	0.0	50 7
267	99.3	4.10	0.0	0.0	0.0	0.0	50 7
268	83.2	4.10	0.0	0.0	0.0	0.0	50 7
269	74.2	3.80	0.0	0.0	0.0	0.0	50 7
270	95.9	4.10	0.0	0.0	0.0	0.0	50 7
271	78.7	3.80	0.0	0.0	0.0	0.0	50 7
272	95.5	4.00	0.0	0.0	0.0	0.0	50 7
273	71.8	3.80	0.0	0.0	0.0	0.0	50 7
274	71.2	4.00	0.0	0.0	0.0	0.0	50 7
275	102.2	4.10	0.0	0.0	0.0	0.0	50 7
285	99.3	3.50	0.0	0.0	0.0	0.0	20 7
310	81.1	3.90	0.0	0.0	0.0	0.0	50 7
321	102.0	3.70	0.0	0.0	0.0	0.0	20 7
339	86.1	5.50	0.0	0.0	0.0	0.0	30 7
340	70.3	3.80	0.0	0.0	0.0	0.0	30 7
341	116.3	5.40	0.0	0.0	0.0	0.0	50 7
342	87.2	4.90	0.0	0.0	0.0	0.0	50 7
343	116.4	4.90	0.0	0.0	0.0	0.0	50 7

PVFNT NC.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
348	108.4	4.70	0.0	0.0	0.0	0.0	50 7
340	82.3	4.40	0.0	0.0	0.0	0.0	50 7
350	75.2	4.90	3.47	3.10	2.46	10.80	10 7
351	58.7	4.90	4.07	3.69	3.48	0.0	10 7
352	83.9	4.00	0.0	0.0	0.0	0.0	30 7
353	92.2	3.60	0.0	0.0	0.0	0.0	20 7
354	101.9	4.50	3.39	2.96	2.51	6.57	10 7
355	86.8	3.70	0.0	0.0	0.0	0.0	20 7
356	88.2	4.00	0.0	0.0	0.0	0.0	30 7
357	74.9	3.30	0.0	0.0	0.0	0.0	50 7
358	81.9	4.00	0.0	0.0	0.0	0.0	50 7
350	82.7	4.30	0.0	0.0	0.0	0.0	50 7
360	86.7	3.70	0.0	0.0	0.0	0.0	20 7
361	88.0	5.40	0.0	0.0	0.0	0.0	30 7
362	88.0	5.10	4.10	3.98	3.36	10.00	10 7
363	74.0	3.70	0.0	0.0	0.0	0.0	30 7
365	72.5	3.80	0.0	0.0	0.0	0.0	50 7
366	95.4	4.70	0.0	0.0	0.0	0.0	30 7
367	88.0	5.30	0.0	0.0	0.0	0.0	50 7
369	92.7	3.50	0.0	0.0	0.0	0.0	50 7
370	98.1)	3.60	0.0	0.0	0.0	0.0	20 7
371	61.8	*4.50	4.18	4.13	3.95	0.17	10 7
373	70.3	4.90	4.27	4.20	3.75	0.0	10 7
374	70.5	3.50	0.0	0.0	0.0	0.0	50 7
375	74.1	3.30	0.0	0.0	0.0	0.0	50 7
376	72.1	4.10	0.0	0.0	0.0	0.0	20 7
377	96.1	4.50	0.0	0.0	0.0	0.0	20 7
379	75.9	3.60	0.0	0.0	0.0	0.0	20 7
379	87.2	3.70	0.0	0.0	0.0	0.0	50 7
380	60.1	*4.30	0.0	0.0	0 0	0.0	20 7
381	86_1	4.69	0.0	3.43	0.0	0.0	10 7
383	81.1	3.90	0.0	0.0	0.0	0.0	50 7
384	93.9	4.30	0.0	0.0	0.0	0.0	15 7
385	75.2	4.40	3.01	2.50	2.36	0.0	10 7
386	70.3	5.00	0.0	0.0	0.0	0.0	15 7
388	85.6	4.50	0.0	0.0	0.0	0.0	30 7
399	79.9	4.10	0.0	0.0	0.0	0.0	20 7
300	94.3	4.00	0.0	0.0	0.0	0.0	20 7
391	84.2	3.70	0.0	0.0	0.0	0.0	50 7
392	101.7	3.60	0.0	0.0	n.ņ	0.0	50 7
402	88.1	4.60	2.83	0.0	0.0	0.0	30 7
403	97.1	3.70	0.0	0.0	0.0	0.0	50 7
404	96.1	3.50	0.0	0.0	0.0	0.0	30 7
402	63.9	*4.50	3.41	3.04	0.0	0.0	10 7
407		3.80	0.0	0.0	0.0	0.0	20 7
408	95.8	3.40	0.0	0.0	0.0	0.0	20 7
409	63.1	+3.70	0.0	0.0	0.0	0.0	50 7
4.10	96.1	4.70	4.38	3.93	3.33	3.07	10 7
411	74.0	4.10	4.13	3.53	3.42	0.52	10 7

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	<b>4</b> S T=30SEC	MS T=40SEC	LQ/LF RATIO	COMMENT
	(100)		2 3 3 7 6	1 1 1 1 1 1 1 1	1 4 5 6	11 11 111	
412	116.3	5.00	4.60	4.29	3.98	0.0	10 7
413	73.2	3.60	0.0	0.0	0.0	0.0	30 7
414	96.0	3.70	0.0	0.0	0.0	0.0	20 7
415	92.H	4.00	0.0	0.0	0.0	0.0	20 7
416	102.1	5.50	4.63	4.27	4.13	0.0	10 7
417	74.4	3.80	0.0	0.0	n.n	0.0	20 7
419	112.2	4.40	3.93	3.61	0.0	0.0	10 7
419	102.1	<b>*</b> 5.20	4.31	3.79	3.54	0.0	10 7
420	74.8	3.50	0.0	r. n	() • ()	0.0	20 7
421	95.5	5.10	4.26	3.98	3.66	0.0	10 7
427	66.5	*4.60	0.0	0.0	0.0	0.0	30 7
423	104.8	3.60	0.0	0.0	0.0	7.0	20 7
424	70.5	4.20	0.0	0.0	0.0	0.0	20 7
425	71.8	3.40	0.0	0.9	0.0	0.0	20 7
428	74.4	3.90	0.0	0.0	0.0	0.0	20 7
429	94.0	3.90	0.0	0.0	$G \cdot G$	0.0	50 7
430	74.9	3.70	0.0	0.0	0.0	0.0	20 7
431	94.2	*4.60	0.0	0.0	0.0	0.0	30 7
1152	72.7	4.70	0.0	0.0	0.0	0.0	50 7
1153	92.5	3.80	0.0	0.0	0.0	0.0	50 7
1154	91.9	3.80	0.0	0.0	0.0	0.0	5C 7
1155	94.5	4.40	0.0	0.0	0.0	0.0	50 7
1156	94.5	3.80	3.37	0.0	0.0	0.0	20 7
1157	94.2	7.70	0.0	0.0	0.0	0.0	50 7
1159	83.)	5.00	0.0	3.21	0.0	0.0	10 7
1159 1160	92.2	3.80	0.0	0.0	0.0	0.0	20 7
1161	94.2 96.4	4.00	0.0	0.0	0.0	0.0	50.7
1162	86.4	4.30	0.0	0.0	0.0	0.0	50 7
1163	85.5	4.20 3.80	0.0	0.0	0.0	7.0	50 7
1164	105.7	4.80	0.0	0.0	0.0	0.0	50 7
1165	97.3	4.30	0.0	0.0	0.0	0.0	50 7
1166	87.3	5.20	0.0 3.31	0.0	0.0	0.0	50 7
1167	94.5	3.70	0.0	3.27	0.0	9.04	10 7
1168	87.4	5.30	4.37	0.0 3.88	0.0	1.10	30 7
1169	87.9	3.60	0.0	0.0	0.0	0.0	10 7 50 7
1170	87.6	4.10	0.0	0.0	0.0	0.0	50 7
1171	92.0	4.00	0.0	0.0	0.0	0.0	50.7
1172	87.2	5.40	4.46	4.53	0.0	1.50	10 7
1173	87.1	3.90	0.0	0.0	0.0	0.0	30 7
1174	87.1	4.70	0.0	0.0	0.0	0.0	30 7
1175	87.3	4.11)	0.0	0.0	0.0	0.0	30 7
1176	87.2	4.50	0.0	7.0	0.0	0.0	50 7
1177	87.2	4.20	0.0	0.0	0.0	0.0	30 7
1178	87.5	4.60	0.0	0.0	0.0	0.0	50 7
1179	87.2	4.70	0.0	0.0	0.0	0.0	30 7
1180	87.1	5.30	4.33	4.54	0.0	0.35	10 7
1181	85.9	3.40	0.0	0.0		, 1.0	50 7
1182	87.0	5.40	4.77	4.95	0.0	0.0	10 7
						•	

EVENT NO.	DISTANCE (DEGREES)	MP	MS T=20SEC	MS T=30SEC	#S T=40SEC	LQ/LR RATIO	COMMENT
1183	87.3	4.50	0.0	0.0	0.0	0.0	30 7
1184	85.1	3.60	0.0	0.0	0.0	0.0	30 7
1185	87.0	4.20	4.12	0.0	0.0	0.0	20 7
1186	86.7	3.50	0.0	0.0	0.0	0.0	50 7
1187	87.3	4.10	0.0	0.0	0.0	0.0	20 7
1188	86.7	3.70	0.0	0.0	0.0	0.0	30 7
1189	86.7	3.30	0.0	0.0	0.0	0.0	50 7
1190	87.2	4.40	0.0	0.0	0.0	0.0	50 7
1191	87.3	4.10	0.0	0.0	0.0	0.0	30 7
1192	86.9	4.10	0.0	0.0	0.0	0.0	50 7
1193	87.9	3.60	0.0	0.0	0.0	0.0	50 7
1194	87.1	4.20	3.38	0.0	0.0	0.0	20 7
1195	87.9	3.70	0.0	0.0	0.0	0.0	50 7
1196	87.0	4.30	0.0	0.0	0.0	0.0	50 7
1197	86.7	3.60	0.0	0.0	0.0	0.0	30 7
1198	87.3	4.90	4.17	3.72	0.0	0.0	10 7
1199	87.3	4.50	0.0	0.0	0.0	0.0	50 7
1200	119.2	4.20	0.0	0.0	0.0	0.0	50 7
1201	86.7	4.20	0.0	0.0	0.0	0.0	50 7
1202	86.7	4.20	0.0	0.0	0.0	0.0	50 7
1203	85.5	3.40	0.0	0.0	0.0	0.0	50 7
1204	82.3	<b>3.7</b> 0	0.0	0.0	0.0	0.0	50 7
1205	95.4	4.30	0.0	0.0	0.0	0.0	50 7
1206	97.1	3.90	0.0	0.0	0.0	0.0	30 7
1207	77.9	3.60	4.31	0.0	0.0	0.0	20 7
1208	87.1	4 . 10	0.0	0.0	0.0	0.0	50 7
1209	87.6	3.70	0.0	0.0	0.0	0.0	30 7
1211	96.2	3.80	0.0	0.0	0.0	0.0	50 7
1212	76.0	4.30	0.0	0.0	0.0	0.0	50 7
1213	85.1	3.70	0.0	0.0	0.0	0.0	50 7
1214	76.0	3.40	0.0	0.0	0.0	0.0	20 7
1215	98.9	3.60	0.0	0.0	0.0	0.0	50 7
1216	102.2	3.80	0.0	0.0	0.0	0.0	50 <b>7</b>
1217	87.9	3.80	0.0	0.0	0.0	0.0	50 7
1218	77.1	4.20	0.0	0.0	0.0	0.0	30 7
1219	97.4	3.70	0.0	0.0	0.0	0.0	50 7
1220	103.8	3.90	0.0	0.0	0.0	0.0	20 7
1221	110.5	3.80	0.0	0.0	0.0	0.0	50 7
1722	85.9	3.70	0.0	0.0	0.0	0.0	50 7
1223	74.2	5.10	4.23	3.42	0.0	0.0	10 7
1224	97.4	3.80	0.0	0.0	0.0	0.0	50 7
1225	92.2	3.60	0.0	0.0	0.0	0.0	20 <b>7</b>
1226	73.6	3.70	0.0	0.0	0.0	0.0	50 7
1227	93.4	4.70	0.0	0.0	0.0	0.0	50 <b>7</b>
1228	98.0	3.70	0.0	0.0	0.0	0.0	50 7
1229	77.1	4.10	0.0	0.0	0.0	0.0	50 7
1230	85.9	3.50	0.0	0.0	0.0	0.0	50 7
1231	98.1	5.10	0.0	0.0	0.0	0.0	50 7
1232	77.5	5.60	0.0	4.73	0.0	0.0	10 7

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1233	86.9	3.20	0.0	0.0	0.0	0.0	50 7
1234	68.7	3.40	0.0	0.0	0.0	0.0	50 7
1235	86.9	3.60	0.0	0.0	0.0	0.0	50 7
1236	85.7	5.40	0.0	0.0	0.0	0.0	50 7
1237	87.6	4.20	0.0	0.0	0.0	0.0	50 7
1238	97.1	3.40	0.0	0.0	0.0	0.0	50 7
1239	95.7	4.40	3.79	3.47	3.14	0.0	10 7
1240	98.0	4.00	0.0	0.0	0.0	0.0	50 <b>7</b>
1255	72.1	3.60	0.0	0.0	0.0	0.0	50 7
1256	71.4	3.30	0.0	0.0	0.0	0.0	50 7
1258	88.3	3.90	0.0	0.0	0.0	0.0	50 7
1259	80.3	4.00	0.0	0.0	0.0	0.0	30 7
1260	71.3	4.80	0.0	0.0	0.0	0.0	50 7
1261	71.0	3.50	0.0	0.0	0.0	0.0	50 7
1262	72.1	3.70	0.0	0.0	0.0	0.0	50 7
1266	86.0	5.40	0.0	0.0	0.0	0.0	20 7
1267	86.0	6.30	3.87	3.17	2.83	0.0	10 7
1268	89.1	5.30	0.0	0.0	0.0	0.0	50 7
1269	82.9	5.30	0.0	0.0	0.0	0.0	50 7
1270	60.6	6.80	3.75	3.04	3.07	16.14	10 7
1271	87.1	5.20	0.0	0.0	0.0	0.0	50 7
1272	62.2	6.00	4.12	4.05	0.0	0.06	10 7
1273	77.4	5.20	4.16	3.68	3.63	0.24	10 7
1274	86.0	5.30	0.0	0.0	0.0	0.0	20 7
1275	76.0	4.80	0.0	0.0	0.0	0.0	50 7
1276	62.3	6.90	4.95	4.92	0.0	0.54	10 7
1277	62.1	4.20	0.0	0.0	0.0	0.0	20 7
1278	61.9	4.40	3.71	3.57	0.0	1.37	60 7
1279	61.4	4.80	0.0	3.50	3.37	0.0	60 7

APPENDIX II-J
BASIC DATA FOR
KIPAPA, HAWAII (KIP)

KIPAPA, HAWATI

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR	COMMENT
			1-20326	1-30350	1-40560	RATIO	
3 10	46.5	3.90	0.0	0.0	0.0	0.0	20 B
311	95.5	3.60	0.0	0.0	0.0	0.0	50 B
312	81.4	3.70	0.0	0.0	0.0	0.0	50 8
313	119.5	4.10	0.0	0.0	0.0	0.0	50 8
314	43.9	3.80	0.0	0.0	0.0	0.0	50 B
3 15	120.6	4.10	0.0	0.0	0.0	0.0	50 8
316	48.4	3.80	0.0	0.0	0.0	0.0	50 8
317	95.8	3.80	0.0	0.0	0.0	0.0	50 8
318	95.8	3.70	0.0	0.0	0.0	0.0	50 8
319	95.8	3.50	0.0	0.0	0.0	0.0	50 B
320	96.4	3.90	0.0	0.0	0.0	0.0	50 8
321	92.4	3.70	0.0	0.0	0.0	0.0	50 8
323	69.8	<b>*5.30</b>	4.37	4.04	0.0	7.0	10 8
324	121.4	4.20	3.81	0.0	0.0	0.0	10 8
326	46.0	4.00	0.0	0.0	0.0	0.0	50 8
327	40.4	3.40	0.0	0.0	0.0	0.0	50 8
328	42.9	3.50	0.0	0.0	0.0	0.0	50 8
329	122.3	4.10	0.0	0.0	0.0	0.0	50 B
330	90.2	3.50	0.0	0.0	0.0	0.0	50 8
331	45.0	4.00	0.0	0.0	0.0	0.0	50 8
332	120.8	4.20	3.81	3.50	0.0	0.0	10 8
333	120.0	3.90	0.0	0.0	0.0	0.0	50 8
334	110.8	4.80	0.0	0.0	0.0	0.0	50 8
335	71.9	4.00	3.61	3.55	0.0	0.0	10 8
336	49.6	3.40	0.0	0.0	0.0	0.0	20 8
337	46.2	3.60	0.0	0.0	0.0	0.0	50 8
338	44.5	4.70	3.49	3.71	0.0	0.0	10 8
339	93.2	5.50	0.0	0.0	0.0	0.0	30 8
340	43.6	3.80	0.0	0.0	0.0	0.0	30 B
341	75.2	5.40	5.64	5.28	0.0	0.22	10 8
347	119.9	4.90	4.63	0.0	0.0	0.0	10 8
343	75.2	4.90	0.0	0.0	0.0	0.0	30 8
344	114.3	4.10	0.0	0.0	0.0	0.0	20 8
345	98.8	4.30	0.0	0.0	0.0	0.0	20 8
346	75.1	4.70	0.0	0.0	0.0	0.0	30 8
347	111.3	4.50	0.0	0.0	0.0	0.0	30 8
348	95.3	4.70	0.0	0.0	0.0	0.0	20 8
349	46.9	4.40	4.05	0.0	0.0	0.0	10 8
350	123.6	4.90	0.0	3.68	0.0	0.0	10 8
351	57.4	4.90	5.17	5.08	4.49	4.38	10 8
352	118.0	4.00	3.88	3.57	3.66	0.0	10 8
353	120.6	3.60	0.0	0.0	0.0	0.0	20 8
354	1111.4	4.50	3.77	3.51	3.14	5.77	10 8
355	48.1	3.70	0.0	0.0	0.0	0.0	20 8
356	120.9	4.00	0.0	0.0	0.0	0.0	30 B
357	44.9	3.30	0.0	0.0	0.0	0.0	30 R
358	47.8	4.00	0.0	0.0	0.0	0.0	10 8
359	47.5	4.30	0.0	0.0	0.0	0.0	50 8
360	49.6	3.70	0.0	0.0	0.0	0.0	20 8

### KIPAPA, HAWATI

EVENT	DISTANCE	MB	MS	MS	MS	LQ/LR	COMMENT
NO.	(DEGREES)		T=20SEC	T=30SEC	T=40SEC	RATTO	COMMINIC
361	120.7	5.40	0.0	0.0	0.0	0.0	30 8
362	120.8	5.10	5.00	4.74	4.32	0.0	10 8
363	43.9	3.70	0.0	0.0	0.0	0.0	30 8
365	44.9	3.80	3.29	3.13	2.82	0.0	10 8
366	112.5	4.70	0.0	3.96	0.0	0.0	10 8
367	120.9	5.30	0.0	0.0	0.0	0.0	15 8
369	120.2	3.50	0.0	0.0	0.0	0.0	20 8
370	121.4	3.60	0.0	0.0	0.0	0.0	20 8
371	114.4	*4.50	4.20	3.65	3.51	0.0	10 8
373	120.3	4.90	0.0	0.0	0.0	0.0	15 8
374	41.0	3.50	0.0	0.0	0.0	0.0	20 8
375	120.3	3.30	0.0	0.0	0.0	0.0	30 8
376	45.9	4.10	0.0	0.0	0.0	0.0	20 8
377 378	107.3	4.50	0.0	0.0	0.0	0.0	20 8
379	46.5	3.60	0.0	0.0	0.0	0.0	20 8
380	120.0	3.70	0.0	0.0	0.0	0.0	20 8
381	110.0	*4.30	0.0	0.0	0.0	0.0	20 B
383	48.9 46.5	4.60	0.0	0.0	0.0	0.0	50 8
384	120.3	3.90	0.0	0.0	0.0	0.0	<b>20</b> 8
385	119.0	4.30	0.0	0.0	0.0	0.0	30 B
386	41.5	4.40	0.0	0.0	0.0	0.0	20 B
388	47.1	5.00 4.50	4.57	4.18	0.0	1.92	10 8
389	44.6		2.94	2.76	2.54	5.18	10 8
<b>39</b> 0	121.9	4.10	0.0	0.0	0.0	0.0	20 8
391	61.7	4.00 3.70	3.46	3.36	3.23	1.68	10.8
392	106.3	3.60	0.0	0.0	0.0	0.0	20 8
393	44.4	4.30	3.85	3.32	0.0	0.0	10 8
394	45.9	3.70	3.37	2.99	2.74	0.0	<b>1</b> 0 8
395	73.8	4.10	0.0	0.0	0.0	0.0	30 B
396	44.9	4.30	3.03	0.0	0.0	0.0	20 B
397	118.9	3.80	0.0	2.75	2.46	3.98	10 8
398	114.3	*3.80	0.0	0.0	0.0	0.0	30 8
399	46.8	4.50	3.93	0.0 3.48	0.0	0.0	30 8
402	121.0	4.60	3.73	3.45	3.05	0.0	10 8
403	103.1	3.70	0.0	0.0	0.0	1.25	10 8
404	121.7	3.50	0.0	0.0	0.0	0.0	20 R
405	114.7	*4.50	0.0	0.0	0.0	0.0	20 8
407	107.4	3.80	0.0	0.0	0.0	0.0	30 8
408	102.4	3.40	0.0	0.0	0.0	0.0	50 B
409	114.3	*3.70	0.0	0.0	0.0	0.0	20 A
410	106.8	4.70	4.05	3.45	3.01	0.0	20 B
411	45.4	4.10	3.50	3.46	0.0	4.63	10 8
412	75.1	5.00	4.40	4.32	0.0	0.0	10 8
413	47.4	3.60	0.0	0.0	0.0	0.0	10 R
414	107.4	3.70	0.0	0.0	0.0	0.0	50 A
415	108.1	4.00	0.0	0.0	0.0	0.0	30 8
416	110.9	5.50	3.94	3.62	0.0	0.0	20 g
417	45.9	3.80	0.0	0.0	0.0	0.0	10 8 30 8

KIPAPA, HAWAIT

EVENT	DISTANCE	МВ	MS	MS	MS	LQ/LR	COMMENT
NO.	(DEGREES)		T=20SEC	T=30SEC	T=40SEC	RATIO	
418	93.5	4.40	0.0	0.0	0.0	0.0	20 8
4 19	110.9	<b>*5.20</b>	0.0	0.0	0.0	0.0	30 8
420	104.3	3.50	0.0	0.0	0.0	0.0	20 8
421	106.9	5.10	0.0	0.0	0.0	0.0	30 8
422	115.6	<b>*4.60</b>	3.92	3.92	3.59	0.0	10 8
423	94.6	3.60	0.0	0.0	0.0	0.0	20 8
424	44.1	4.20	0.0	0.0	0.0	0.0	20 8
425	43.9	3.40	0.0	0.0	0.0	0.0	20 8
426	122.8	4.30	0.0	0.0	0.0	0.0	20 8
427	129.7	5.60	5.06	5.14	5.11	0.26	10 8
429	120.6	3.90	4.08	3.79	3.52	2.68	10 8
430	94.4	3.70	0.0	0.0	0.0	0.0	20 8
431	104.0	*4.60	0.0	0.0	0.0	0.0	30 8
432	120.9	4.40	0.0	0.0	0.0	0.0	20 8
433	73.5	4.90	4.43	4.06	0.0	1.45	10 8
435	42.4	3.40	0.0	0.0	0.0	0.0	20 8
436	121.5	5.40	0.0	0.0	0.0	0.0	50 8
437	121.6	4.60	0.0	0.0	0.0	0.0	30 8
438	121.5	5.00	4.19	3.66	3.42	0.0	10 8
439	106.0	4.30	0.0	0.0	0.0	0.0	20 8
440	120.6	4.00	0.0	0.0	0.0	0.0	20 8
441	121.1	4.00	0.0	0.0	0.0	0.0	20 8
442	121.5	5.10	0.0	0.0	0.0	0.0	30 8
443	45.6	4.00	0.0	0.0	0.0	0.0	30 8
444	116.7	3.40	0.0	0.0	0.0	0.0	20 8
445	121.7	3.90	0.0	0.0	0.0	0.0	30 8
446	44.8	4.40	3.40	3.16	0.0	0.0	10 8
447 448	48.7	3.60	0.0	0.0	0.0	0.0	30 8
449	48.7 94.8	3.80	0.0	0.0	0.0	0.0	20 8
450	92.3	4.60	4.00	3.49	3.30	0.0	10 8
451	91.3	3.50	0.0	0.0	0.0	0.0	20 8
452	119.4	4.30 3.40	3.70	3.24	2.88	0.0	10 8
453	120.2	4.00	0.0	0.0	0.0	0.0	20 8
454	121.7	4.70	0.0	0.0	0.0	0.0	50 8
455	120.1	4.10	0.0	0.0	0.0	0.0	20 8
456	93.3	4.40	0.0	0.0	0.0	0.0	30 8
457	122.0	3.10	0.0	0.0	0.0	0.0	20 B
458	111.0	4.30	0.0	0.0	0.0	0.0	20 8
459	51.1	3.90	0.0	0.0	0.0	0.0	30 8
460	45.0	3.70		0.0	0.0 0.0	0.0	20 8
461	94.7	5.00	4.50	4.62	3.93	0.0	30 8
462	86.8	3.70	0.0	0.0	0.0	1.25	10 8
463	117.0	4.70	0.0	0.0	0.0	0.0	20 8
464	45.6	4.90	4.03	3.95	3.35	0.0 0.25	30 B
465	48.4	4.20	0.0	0.0	0.0	0.25	10 8
466	122.5	4.00	0.0	0.0	0.0	0.0	20 8 30 8
467	64.3	4.10	3.63	3.27	0.0	0.0	10 8
469	44.3	4.10	0.0	0.0	0.0	0.0	50 8

#### KTPAPA, HAWAIT

<b>3 5 5 1 1</b>							
EVENT		MB	MS	MS	MS	LO/LR	COMMENT
NO.	(DEGREES)		T=20SEC	T=30SEC	T = 40SEC	RATIO	
470	91.0	4.70	0.0	0 0	• •		
471	104.9	4.20	0.0 0.0	0.0	0.0	0.0	30 A
472	46.3	5.20		0.0	0.0	0.0	20 8
473	44.4	3.60	4.11	4.30	3.62	0.0	10 8
474	115.4	3.70	0.0	0.0	0.0	0.0	20 8
475	118.3		0.0	0.0	0.0	0.0	20 8
476	46.0	4.70	0.0	0.0	0.0	0.0	50 8
477	107.0	5.20	3.89	4.05	3.32	0.50	10 8
478		3.50	0.0	0.0	0.0	0.0	20 B
479	42.1	4.00	0.0	0.0	0.0	0.0	20 8
	121.3	4.10	0.0	0.0	0.0	0.0	20 8
482	48.2	4.20	3.70	3.10	0.0	0.0	10 8
483	116.7	3.70	0.0	0.0	0.0	0.0	20 8
484	114.3	4.40	0.0	0.0	0.0	0.0	20 B
485	72.4	3.80	0.0	0.0	0.0	0.0	20 B
486	121.9	3.90	0.0	0.0	0.0	0.0	20 8
487	121.5	4.40	0.0	0.0	0.0	0.0	20 B
488	121.5	3.90	0.0	0.0	0.0	0.0	20 8
489	121.5	3.40	0.0	0.0	0.0	0.0	20 8
490	62.7	3.90	0.0	0.0	0.0	0.0	20 8
491	97.6	3.80	0.0	0.0	0.0	0.0	20 8
492	70.0	5.10	4.11	3.78	0.0	0.0	10 8
493	47.5	4.40	0.0	0.0	0.0	0.0	20 8
494	46.5	3.70	0.0	0.0	0.0	0.0	20 B
495	49.3	3.50	0.0	0.0	0.0	0.0	20 8
496	91.2	5.20	3.98	3.57	0.0	0.0	10 8
497	117,0 91.2	4.90	4.44	4.34	3.76	1.82	10 8
499	91.2	4.70	0.0	0.0	0.0	0.0	50 B
499	73.5	4.60	4.06	3.78	3.21	0.0	10 8
500	48.2	3.70	0.0	0.0	0.0	0.0	30 8
501	44.1	4.20	0.0	0.0	0.0	0.0	20 8
502	89.6	3.90	3.62	3.39	2.96	0.0	10 8
503	45.1	4.20	0.0	0.0	0.0	0.0	20 B
504	124.1	3.90	0.0	0.0		0.0	20 8
505	46.1	5.30	4.56	4.33	3.90	2.16	17 B
506	46.0	3.30	0.0	0.0	0.0	0.0	20 8
508	48.8	4.10	0.0	0.0	0.0	0.0	20 B
509	46.2	4.50	0.0	0.0	0.0	0.0	30 8
5 10	100.7	4.00	0.0	0.0	0.0	0.0	20 8
511	97.9	3.70	0.0	0.0	0.0	0.0	20 8
512	117.0	4.00	0.0	0.0	0.0	0.0	20 8
513	49.8	5.00	3.97	4.06	0.0	0.0	10 8
514	43.4	4.20	0.0	0.0	0.0	0.0	
5 1 5	47.9	4.30	0.0	0.0	0.0	0.0	20 8
5 16	105.4	3.60	0.0	0.0	0.0	0.0	20 B
517	97.1	3.90	0.0	0.0	0.0	0.0	20 B
518	114.6	4.30	0.0	0.0	0.0	0.0	20 A
520	87.8	4.80	0.0	0.0	0.0		20 8
521	112.3	4.60	0.0	0.0	0.0	0.0	20 A
522	95.0	5.50	5.03	4.69		0.0	20 B
	•		5.03	4.07	4.32	2.56	10 B

# KIPAPA, HAWATI

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
523	95.1	4.70	0.0	0.0	0.0	0.0	20 8
524	125.5	3.90	0.0	0.0	0.0	0.0	20 8
525	95.6	3.60	0.0	0.0	0.0	0.0	20 8
526	47.9	3.70	0.0	0.0	0.0	0.0	
527	116.9	4.40	0.0	0.0	0.0	0.0	20 8
528	46.5	4.00	0.0	0.0	0.0	0.0	30 8
529	100.3	4.80	0.0	0.0	0.0	0.0	20 8
530	119.9	4.50	0.0	0.0	0.0	0.0	20 8
531	48.0	4.30	0.0	0.0	0.0	0.0	20 8
532	114.3	4.00	0.0	0.0	0.0	0.0	30 8
533	114.5	4.40	0.0	0.0	0.0	0.0	20 8
534	44.1	5.10	4.49	3.94	3.57	0.0	30 8
5.35	64.9	5.10	4.49	4.23	0.0	0.0	10 8
537	121.4	3.80	0.0	0.0	0.0	0.0	10 8 20 8
538	110.8	3.80	0.0	0.0	0.0	0.0	
539	45.5	4.80	3.95	3.78	3.18	0.0	30 8
540	118.6	4.40	0.0	0.0	0.0	0.0	10 8 20 8
541	45.5	5.10	4.77	4.63	0.0	0.50	
542	103.3	4.00	0.0	0.0	0.0	0.0	10 8
543	74.2	4.90	0.0	0.0	0.0	0.0	20 8 50 8
544	88.3	3.50	0.0	0.0	0.0	0.0	20 8
545	117.4	3.60	0.0	0.0	0.0	0.0	30 8
546	45.1	4.80	3.61	3.47	3.21	0.0	10 8
547	73.2	4.60	0.0	0.0	0.0	0.0	50 8
548	120.2	3.60	0.0	0.0	0.0	0.0	20 8
549	63.6	3.70	3.27	2.92	0.0	0.0	10 8
550	105.6	4.10	0.0	0.0	0.0	0.0	50 8
551	124.7	3.70	0.0	0.0	0.0	0.0	20 8
552	103.0	3.70	0.0	0.0	0.0	0.0	20 8
553	105.6	3.80	0.0	0.0	0.0	0.0	30 8
554	122.2	4.50	0.0	3.33	0.0	0.0	15 8
555	123.5	3.40	0.0	0.0	0.0	0.0	23 8
556	50.6	4.00	0.0	0.0	0.0	0.0	50 8
557	120.0	4.70	0.0	0.0	0.0	0.0	30 8
558	44.9	5.60	5.47	5.29	4.89	0.52	10 8
559	44.9	5.00	5.31	5.28	0.0	0.50	10 8
560	120.1	4.20	0.0	0.0	0.0	0.0	20 8
561	120.0	4.30	0.0	0.0	0.0	0.0	50 8
562	47.1	4.50	3.40	3.32	0.0	0.0	10 8
563	45.4	4.00	0.0	0.0	0.0	0.0	30 8
564	117.9	3.90	0.0	0.0	0.0	0.0	30 8
565	46.9	5.30	0.0	0.0	0.0	0.0	50 8
566	120.0	4.50	3.75	3.57	3.72	0.0	10 8
5 6 <b>7</b>	120.0	4.80	0.0	0.0	0.0	0.0	35 8
56B	62.2	4.00	0.0	0.0	0.0	0.0	20 8
569	48.2	4.00	0.0	0.0	0.0	0.0	20 8
570	119.8	4.30	0.0	0.0	0.0	0.0	50 8
571	120.1	4.00	0.0	0.0	0.0	0.0	30 8
5 <b>7</b> 2	45.9	3.90	0.0	0.0	0.0	0.0	30 8

KIPAPA, HAWAIT

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
<b>57</b> 3	45.6	5.70	7.15	5.88	5.25	0.63	10 8
574	45.4	4.40	0.0	0.0	0.0	0.0	30 8
575	45.0	3.80	0.0	0.0	0.0	0.0	30 8
576	122.0	4.30	0.0	0.0	0.0	0.0	30 8
577	45.0	4.10	0.0	0.0	0.0	0.0	20 8
578	45.4	4.70	3.77	3.51	0.0	0.0	10 8
579	45.4	4.90	4.57	0.0	0.0	0.0	10 8
580	45.6	4.30	0.0	0.0	0.0	0.0	30 8
581	46.2	3.80	0.0	0.0	0.0	0.0	30 8
582	113.2	4.50	0.0	4.21	0.0	0.0	16 8
583	119.9	5.50	0.0	0.0	0.0	0.0	30 8
584	119.6	5.00	0.0	0.0	0.0	0.0	30 8
585	124.2	4.00	0.0	U.Û	0.0	0.0	30 8
586	120.4	5.00	0.0	0.0	0.0	0.0	30 8
587	122.4	4.00	0.0	0.0	0.0	0.0	20 B
588	45.0	4.20	0.0	0.0	0.0	0.0	30 8
589	45.3	4.20	0.0	0.0	0.0	0.0	23 8
590	43.9	3.70	0.0	0.0	0.0	0.0	35 A
591	43.1	4.50	3.56	3.56	3.08	1.13	10 8
592	119.8	4.00	0.0	0.0	0.0	0.0	30 B
593	40.9	3.90	0.0	0.0	0.0	0.0	30 A
594	115.4	4.70	4.01	3.61	0.0	1.65	10 8
595	118.1	4.20	0.0	0.0	0.0	0.0	20 8
596	44.6	5.10	4.11	4.00	0.0	1.59	10 8
597	46.9	3.80	0.0	0.0	0.0	0.0	20 B
598	120.0	5.50	4.44	4.02	0.0	2.76	10 8
599	43.6	3.70	0.0	0.0	0.0	0.0	23 8 17 8
600	119.1	4.30	0.0	4.45	0.0	0.0	20 8
601	118.7	4.40	0.0	0.0	0.0	0.0	20 8
602 603	47.4	4.10 3.80	0.0	0.0	0.0	0.0	20 B
604	69.3 102.2	4.50	0.0	0.0	0.0	0.0	23 8
605	75.6	5.10	4.26	3.53	0.0	2.13	10 R
606	63.9	4.80	3.92	3.35	0.0	3.11	10 8
607	46.9	4. 10	0.0	0.0	0.0	0.0	30 8
608	28.0	4.50	0.0	0.0	0.0	0.0	20 8
609	43.0	3.50	0.0	0.0	0.0	0.0	20 R
610	93.1	5.20	4.20	3.66	3.43	0.0	10 8
611	81.1	5.00	4.20	3.78	0.0	3.12	10 8
612	117.1	4.00	0.0	0.0	0.0	0.0	30 8
613	44.5	3.30	0.0	0.0	0.0	0.0	20 B
6 14	44.9	5.30	5.13	5.02	4.51		10 8
615	120.2	3.50	0.0	0.0	0.0	0.0	50 B
618	93.2	4.10	0.0	0.0	0.0	0.0	20 8
619	105.4	4.70	0.0	0.6	0.0	0.0	30 R
620	45.0	3.60	0.0	0.0	0.0	0.0	32 8
621	46.8	3.60	0.0	0.0	0.0	0.0	20 R
622	47.5	3.60	0.0	0.0	0.0	0.0	30 8
623	45.4	3.60	0.0	0.0	0.0	0.0	20 8

KIPAPA, HAWAIT

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
624	48.2	4.10	0.0	0.0	0.0	0.0	30 8
625	43.9	3.40	0.0	0.0	0.0	0.0	50 8
626	93.2	5.20	0.0	0.0	0.0	0.0	25 8
627	117.1	3.50	0.0	0.0	0.0	0.0	23 8
628	43.9	3.60	0.0	0.0	0.0	0.0	20 8
629	104.8	3.60	0.0	0.0	0.0	0.0	53 8
630	43.2	4.30	3.60	3.20	0.0	2.64	10 8
631	46.8	3.50	0.0	0.0	0.0	0.0	30 8
632	49.1	4.50	0.0	0.0	0.0	0.0	53 8
633	45.0	3.60	0.0	0.0	0.0	0.0	30 8
634	105.6	5.00	0.0	0.0	0.0	0.0	30 8
635	48.9	4.50	0.0	0.0	0.0	0.0	30 8
6.36	48.4	3.50	0.0	0.0	0.0	0.0	30 8
637	44.9	3.60	0.0	0.0	0.0	0.0	20 8
638	45.6	3.50	0.0	0.0	0.0	0.0	20 8
639	118.6	3.60	0.0	0.0	0.0	0.0	20 8
640	118.2	3.90	0.0	0.0	$\mathbf{G} \cdot \mathbf{O}$	0.0	20 8
641	118.2	3.90	0.0	0.0	0.0	0.0	20 8
642	81.8	4.00	3.83	3.99	3.26	0.0	10 8
643	44.4	4.00	3.75	3.27	0.0	0.0	10 8
644	45.0	5.10	0.0	0.0	0.0	0.0	30 8
645	47.7	5.10	0.0	0.0	0.0	0.0	30 8
646	47.7	3.70	0.0	0.0	0.0	0.0	20 8
647	97.5	3.90	0.0	0.0	0.0	0.0	20 8
648	120.6	3.60	0.0	0.0	0.0	0.0	30 8
649	50.4	4.30	3.46	3.61	3.09	2.30	10 8
650	49.1	3.50	3.16	2.80	0.0	0.0	13 8
651	49.3	4.90	4.00	3.79	3, 39	1.14	10 8
652	105.3	5.70	0.0	0.0	0.0	0.0	20 8
653	43.2	5.20	4.11	4.18	0.0	0.45	10 8
654	45.6	4.50	0.0	0.0	0.0	0.0	20 8
655	48.2	4.00	0.0	0.0	0.0	0.0	30 8
656	99.8	4.80	3.47	3.00	3.00	2.55	16 8
657	97.5	4.30	0.0	0.0	0.0	0.0	30 8
658	99.8	*4.50	0.0	0.0	3.39	0.0	13 8
659		4.00	0.0	0.0	0.0	0.0	30 8
660	46.9	4.10	0.0	0.0	0.0	0.0	20 8
661	45.5	5.20	4.31	4.20	0.0	0.0	10 8
662	98.8	4.60	0.0	0.0	0.0	0.0	50 8
663	73.9	4.20	0.0	0.0	0.0	0.0	30 8
664	45.6	3.70	0.0	2.89	0.0	0.0	15 8
665	119.2	4.00	0.0	0.0	0.0	0.0	32 8
666 667	45.7	3.30	0.0	0.0	0.0	0.0	20 8
668	44.1	3.80	0.0	0.0	0.0	0.0	30 8
669	51.0	3.80	0.0	0.0	0.0	0.0	50 8
670	61.4	3.80 4.00	0.0	0.0	0.0	0.0	20 8
671	47.5	3.60	0.0 3.68	0.0 3.13	0.0	0.0	20 8
672	93.2	5.50	0.0	0.0	2.78 0.0	0.0 0.0	10 8 30 8
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#### KIPAPA, HAWAIT

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/IR RATIO	COMMENT
673	87.5	3.80	0.0	0.0	0.0	0.0	23 8
674	120.1	3.60	0.0	0.0	0.0	0.0	30 8
675	90.3	4.00	0.0	0.1	0.0	0.0	23 8
676	91.6	4.80	4.47	3.93	3.64	0.0	10 8
677	106.8	3.60	3.39	3.21	0.0	0.78	16 8
678	45.0	4.20	4.66	4.26	3.73	0.0	10 8
679	82.8	6.30	0.0	0.0	0.0	0.0	30 8
680	110.2	5.20	0.0	0.0	0.0	0.0	20 8
681	46.2	3.70	0.0	0.0	0.0	0.0	16 8
682	120.2	3.70	0.0	0.0	0.0	0.0	20 8
683	125.4	4.40	3.86	3.56	3.45	0.0	10 8
684	122.5	3.60	0.0	0.0	0.0	0.0	30 8
685	100.5	3.70	0.0	0.0	0.0	0.0	30 8
686	114.4	*4.30	0.0	0.0	0.0	0.0	20 8
687	88.9	5.50	0.0	0.0	0.0	0.0	23 8
688	89.2	4.20	0.0	0.0	0.0	0.0	32 8
689	89.0	5.50	0.0	0.0	0.0	0.0	30 8
690	89.1	5.50	4.31	4.23	0.0	0.65	10 8
691	44.9	4.60	0.0	0.0	0.0	0.0	30 B
692	82.7	5.50	0.0	4.37	0.0	0.0	13 8
693	77.R	3.70	0.0	0.0	0.0	0.0	25 8
694	44.4	3.50	0.0	0.0	0.0	0.0	20 8
696	107.7	4.40	0.0	0.0	0.0	0.0	30 8
697 698	54.2	4.40	0.0	0.0	0.0	0.0	50 8
699	50.8	4.80	0.0	0.0	0.0	0.0	50 8
700	92.8 102.8	6.20	3.61	3.67	3.26	0.0	10 8
701	120.2	4.30	0.0	0.0	0.0	0.0	30 8
702	107.8	4.00	0.0	0.0	0.0	0.0	50 8
703	105.6	5.50 3.80	5.31	4.82	4.47	0.0	10 8
704	123.4	5.20	0.0	0.0	0.0	0.0	30 8
705	105.7	4.20	5.10 0.0	5.16	0.0	0.0	10 8
706	123.4	3.70		0.0	0.0	0.0	20 8
707	123.9	4.30	0.0	0.0	0.0	0.0	20 8
708	99.3	*4.50	0.0	0.0	0.0	0.0	20 8
709	105.8	4.10	0.0	0.0	0.0	0.0	20 8
710	49.6	4.30	3.74	3.62	0.0	0.0	23 8
711	74.3	<b>*5.30</b>	4.25	4.11	2.90 3.73	0.45	10 8
712	104.4	4.30	0.0	0.0	0.0	1.11 0.0	10 8
713	45.1	4.50	3.63	3.02	0.0	0.0	20 8
714	123.6	4.60	0.0	0.0	0.0	0.0	13 8
715	48.3	3.70	0.0	0.0	0.0	0.0	30 8 20 8
716	73.1	5.50	5.02	4.64	0.0	0.60	10 8
717	120.6	4.20	0.0	0.0	0.0	0.0	50 B
718	118.0	4.70	4.08	3.99	3.57	0.0	13 A
719	118.5	3.60	0.0	0.0	0.0	0.0	20 8
720	47.0	3.60	0.0	0.0	0.0	0.0	30 8
721	62.6	3.80	0.0	0.0	0.0	0.0	32 8
722	99.4	3.80	0.0	0.0	0.0	0.0	20 8

KIPAPA, HAWATI

FVF		DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
		(020112113)		1 - 200110	1-30350	1-40360	WW 11()	
72		45.2	4.80	0.0	0.0	0.0	0.0	30 8
72	2.4	49.2	3.70	0.0	0.0	0.0	0.0	23 8
72	5	133.9	3.90	0.0	0.0	0.0	0.0	20 8
72	26	72.4	4.10	0.0	0.0	0.0	0.0	30 8
72	27	121.4	3.90	0.0	0.0	0.0	0.0	30 8
72	8	126.1	4.50	0.0	0 ., 0	0.0	0.0	20 8
72	9	104.4	3.90	0.0	0.0	0.0	0.0	30 8
73	30	123.5	3.80	0.0	0.0	0.0	0.0	30 8
73	1	120.0	3.90	0.0	0.0	0.0	0.0	23 8
73	32	94.9	4.40	3.50	3.39	3.19	0.0	10 8
73		123.5	3.70	0.0	0.0	0.0	0.0	23 8
73		92.4	4.30	0.0	0.0	0.0	0.0	30 8
<b>7</b> 3		46.8	4.00	0.0	0.0	0.0	0.0	20 8
73		49.3	3.70	0.0	0.0	0.0	0.0	50 8
73		44.7	4.60	3.86	3.43	2.98	0.91	10 8
73		49.4	3.90	0.0	0.0	0.0	0.0	30 8
73		45.9	4.00	0.0	0.0	0.0	0.0	30 8
74		119.2	*4.80	0.0	0.0	0.0	0.0	30 8
74		120.6	4.00	0.0	0.0	0.0	0.0	30 8
74		94.0	4.00	0.0	0.0	0.0	0.0	30 8
74		73.2	5.70	5.47	5.18	0.0	1.19	10 8
74		73.9	4.40	0.0	0.0	0.0	0.0	30 8
74		93.4	3.60	0.0	0.0	0.0	0.0	20 A
74		123.8	4.10	0.0	0.0	0.0	0.0	30 8
74		104.4	4.00	0.0	0.0	0.0	0.0	20 8
74		102.5	4.00	0.0	0.0	0.0	0.0	30 8
75		102.3	4.97	0.0	0.0	0.0	0.0	30 8
75		119.8	4.30	0.0	0.0	0.0	0.0	30 8
75		118.5	5.40	3.77	3.63	0.0	0.0	10 8
75		101.6	4.70	0.0	0.0	0.0	0.0	35 8
75		120.2	3.70	0.0	0.0	0.0	0.0	20 8
7.5		98.0	5.20	0.0	0.0	0.0	0.0	30 8
75		45.2	3.40	0.0	0.0	0.0	0.0	25 8
75		90.2	3.90	0.0	0.0	0.0	0.0	20 8
75		66.1	5.10	0.0	0.0	0.0	0.0	30 8
75		120.2	4.00	0.0	0.0	0.0	0.0	23 8
76		121.5	5.60	0.0	0.0	0.0	0.0	23 8
76		45.2		3.86		3.46	0.0	10 8
76		115.1	4.90	0.0	0.0	0.0	0.0	50 8
76		98.0	3.90	0.0	0.0	0.0	0.0	20 8
76		44.4	4.70	3.77	3.62	3.24	1.14	10 8
76		124.5	4.80	0.0	0.0	0.0	0.0	20 8
76		45.1	3.60	0.0	0.0	0.0	0.0	20 8
76		126.2	4.40	0.0	0.0	0.0	0.0	20 8
76		105.6	3.60	0.0	0.0	0.0	0.0	23 8
76		105.6	4. 10	0.0	0.0	0.0	0.0	50 8
77		60.8	3.60	0.0	0.0	0.0	0.0	20 8
77 77		114.0	*4.40	0.0	0.0	0.0	0.0	30 8 30 8

#### KIPAPA, HAWAII

EVENT	DISTANCE	MB	MS	MS	MS	LO/LR	COMMENT
NO.	(DEGREES)		T=20SEC	T = 30SEC	T=40SEC	RATIO	
773	84.9	3.90	0.0	0.0	0.0	0.0	20 8
774	121.9	4.70	2.86	0.0	0.0	0.0	30 8
775	113.8	5.40	4.92	4.79	0.0	0.73	10 8
776	44.8	4.80	3.75	3.73	3.11	0.0	10 8
777	54.7	4.10	0.0	0.0	0.0	0.0	20 8
778	123.0	5.10	0.0	0.0	0.0	0.0	20 8
779	54.7	3.60	0.0	0.0	0.0	0.0	20 8
780	52.7	3.90	0.0	0.0	0.0	0.0	30 8
781	101.4	5.00	0.0	0.0	0.0	0.0	20 8
782	52.0	4.00	0.0	0.0	0.0	0.0	20 8
783	45.0	4.40	3.59	3.17	0.0	0.0	13 8
784	49.8	4.10	0.0	0.0	0.0	0.0	30 8
785	62.8	5.30	4.43	4.13	0.0	0.0	10 8
786	123.2	4.30	0.0	0.0	0.0	0.0	20 8
787	54.8	3.70	0.0	0.0	0.0	0.0	50 8
788	106.3	3.90	0.0	0.0	0.0	0.0	20 8
789	54.7	4.20	0.0	0.0	0.0	0.0	30 8
790	54.9	4.70	3.99	3.43	0.0	1.25	10 8
791	70.9	3.70	0.0	0.0	0.0	0.0	30 8
792	145.8	4.50	0.0	0.0	0.0	0.0	10 8
793	106.7	4.10	0.0	0.0	0.0	0.0	20 8
794	73.6	4.00	0.0	0.0	0.0	0.0	30 8
795	45.3	3.80	0.0	0.0	0.0	0.0	20 R
796	41.0	3.50	0.0	0.0	0.0	0.0	20 R
797	93.2	5.70	4.11	3.88	3.23	0.52	10 8
799	48.8	6.00	5.77	5.70	0.0	0.86	10 8
800	47.7	4.20	0.0	0.0	0.0	0.0	30 8
801	48.9	3.50	0.0	0.0	0.0	0.0	20 B
802	48.9	4.80	4.74	4.60	4.30	0.90	10 8
803	49.8	3.60	0.0	0.0	0.0	0.0	20 R
804	48.2	3.70	0.0	0.0	0.0	0.0	30 8
805	120.6	<b>3.7</b> 0	0.0	0.0	0.0	0.0	30 8
806	47.9	4.30	0.0	0.0	0.0	0.0	20 8
807	48.8	4.30	0.0	0.0	0.0	0.0	30 8
808	49.8	3.90	0.0	0.0	0.0	0.0	20 8
809	47.9	3.60	0.0	0.0	0.0	0.0	30 8
R 10	47.9	3.60	0.0	0.0	•	0.0	20 8
811	46.1	3.60	0.0	0.0	0.0	0.0	20 8
812	48.9	4.30	0.0	0.0	0.0	0.0	20 B
813	48.9	4.80	4.31	4.07	0.0	0.36	10 8
A 14	49.1	4.10	0.0	0.0	0.0	0.0	30 8
815	45.0	4.70	0.0	0.0	0.0	0.0	30 8
816	119.7	3.90	0.0	0.0	0.0	0.0	20 8
817	53.5	3.60	0.0	0.0	0.0	0.0	20 8
8 18	47.5	5.70	4.77	4.66	0.0	2.80	10 8
819	108.8	3.60	0.0	0.0	0.0	0.0	20 B
820	116.9	*4.20	0.0	0.0	0.0	0.0	20 B
821	47.9	4.60	3.29	3.25	2.88	0.0	16 B
822	48.4	4.10	0.0	0.0	0.0	0.0	20 B

## KIPAPA, HAWAII

PVENT	DISTANCE	MB	MS	MS	MS	LQ/LR	COMMENT
NO.	(DEGREES)		T=20SEC	T = 30 SEC	T=40 SEC	RATIO	
823	120.4	*4.30	0.0	0.0	0.0	0.0	20 8
824	49.6	3.40	0.0	0.0	0.0	0.0	20 8
825	48.8	4.70	4.42	4.18	3.77	0.0	10 8
827	70.6	4.40	0.0	0.0	0.0	0.0	20 8
828	48.9	5.70	5.81	5.75	0.0	0.53	10 8
829	48.9	4.80	0.0	0.0	0.0	0.0	30 8
830	48.6	4.30	0.0	0.0	0.0	0.0	20 8
831	48.4	3.80	0.0	0.0	0.0	0.0	20 8
832	48.9	4.70	0.0	0.0	0.0	0.0	20 8
833	49.1	4.10	0.0	0.0	0.0	0.0	20 8
834	48.8	4.80	0.0	0.0	0.0	0.0	20 8
835	49.6	3.70	0.0	0.0	0.0	0.0	20 8
836	48.9	4.60	3.42	3.69	0.0	0.70	10 8
837	48.8	4.90	3.93	3.93	0.0	0.95	10 8
838	106.0	3.40	0.0	0.0	0.0	0.0	20 8
839	69.4	4.00	3.57	3.27	3.10	0.92	10 8
840	48.1	3.80	3.99	0.0	0.0	0.0	10 8
841	47.9	3.70	0.0	0.0	0.0	0.0	20 8
842	124.1	4.70	0.0	3.73	3.30	0.0	10 8
843	43.1	3.80	0.0	0.0	0.0	0.0	20 8
844	122.8	4.60	4.01	3.70	0.0	0.0	10 8
845	112.1	4.30	0.0	0.0	0.0	0.0	20 8
846	44.1	4.10	0.0	0.0	0.0	0.0	20 8
847	108.3	3.70	0.0	0.0	0.0	0.0	20 8
848	44.4	4.20	3.07	0.0	0.0	0.0	20 8
849	116.2	3.70	0.0	0.0	0.0	0.0	30 8
850	44.5	4.10	0.0	0.0	0.0	0.0	20 8
851	43.9	4.10	0.0	0.0	0.0	0.0	20 8
852	45.6	4.10	0.0	0.0	0.0	0.0	26 8
853	96.5	3.90	0.0	0.0	0.0	0.0	20 8
854	97.3	3.80	0.0	0.0	0.0	0.0	20 8
855	106.3	4.00	0.0	0.0	0.0	0.0	20 8
856	117.8	3.70	0.0	0.0	0.0	0.0	20 8
857	43.5	4.80	3.68	3.59	3.19	0.16	10 A
858	48.7	. • . =	3.62	3.52	3.26	0.0	10 8
859	45.2	5.70	5.23	5.30	4.84	0.54	10 8
860	43.9	3.50	0.0	0.0	0.0	0.0	20 8
861	116.9	3.60	0.0	0.0	0.0	0.0	20 8
862	122.0	4.60	0.0	0.0		0.0	20 8
863	119.5	3.60	0.0	0.0	0.0	0.0	30 8
864	47.9	4.00	0.0	0.0		0.0	20 8
865	93.1	4.50	0.0	0.0	0.0	0.0	20 8
866	117.8	3.50	0.0	0.0	0.0	0.0	30 8
867	45.0	4.10	0.0	0.0	0.0	0.0	20 8
868	45.0	4.30	0.0	0.0	0.0	0.0	30 8
869	40.9	4.30	0.0	0.0	0.0	0.0	20 8
870	100.6	4.10	4.27	3.72	0.0	0.0	10 8
871	48.9	3.80	0.0	0.0	0.0	0.0	20 8
872	121.1	3.80	0.0	0.0	0.0	0.0	20 8

## KIPAPA, HAWAII

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
873 ·	96.7	4.50	0.0	0.0	0.0	0.0	20 8
874	118.1	4.40	0.0	0.0	0.0	0.0	20 8
875	96.7	4.90	4.18	3.80	3.60	1.58	10 8
878	44.9	3.50	0.0	0.0	0.0	0.0	20 8
879	43.0	3.60	0.0	0.0	0.0	0.0	20 8
880	120.4	4.30	0.0	0.0	0.0	0.0	30 8
881	97.7	5.20	3.78	3.80	0.0	0.82	10 8
882	45.7	4.10	0.0	0.0	0.0	0.0	20 8
883	97.8	3.70	0.0	0.0	0.0	0.0	30 8
884	103.6	5.50	4.31	3.72	3.63	1.25	10 8
885	103.5	4.80	0.0	0.0	0.0	0.0	20 8
886	107.0	3.80	0.0	0.0	0.0	0.0	20 8
887	103.2	4.70	0.0	0.0	0.0	0.9	30 8
888	45.1	3.50	0.0	0.0	0.0	0.0	20 8
889	45.4	3.40	0.0	0.0	0.0	0.0	20 8
890	122.8	5.30	4.71	4.39	3.88	0.0	10 8
891	123.6	4.00	0.0	0.0	0.0	0.0	20 8
892	123.0	4.30	0.0	0.0	0.0	0.0	20 8
893	46.0	4.70	3.77	3.68	3.30	0.0	10 8
894	45.0	3.90	0.0	0.0	0.0	0.0	20 8
895	102.3	4.90	0.0	0.0	0.0	0.0	30 R
896	110.2	4.80	0.0	0.0	0.0	0.0	20 8
897	120.8	5.00	3.93	<b>3.7</b> 9	0.0	0.53	10 8
898	120.3	4.40	0.0	0.0	0.0	0.0	50 8
899	44.5	4.30	0.0	0.0	0.0	0.0	30 8
900	106.1	3.90	0.0	0.0	0.0	0.0	20 8
901	43.3	3.80	0.0	0.0	0.0	0.0	20 8
902	105.4	3.70	0.0	0.0	0.0	0.0	50 8
903	121.0	3.90	0.0	0.0	0.0	0.0	50 8
904	44.9	3.90	0.0	0.0	0.0	0.0	50 8
905	105.7	3.80	0.0	0.0	0.0	0.0	50 8
906	121.5	3.60	0.0	0.0	0.0	0.0	20 8
907	121.5	4.20	0.0	0.0	0.0	0.0	20 8
908	90.9	5.10	4.02	3.50	0.0-	0.65	10 8
909	90.9	4.70	0.0	0.0	0.0	0.0	20 8
910	104.7	3.80	0.0	0.0	0.0	0.0	20 8
911	105.1	5.10	4.10	3.85	0.0	0.0	10 8
912	123.5	4.50	0.0	0.0	0.0	0.0	20 8
913	105.1	3.70	0.0	0.0	0.0	0.0	20 8
914	87.4	4.60	0.0	0.0	0.0	0.0	20 8
915	110.0	4.80 4.50	0.0	0.0	0.0	0.0	20 8
916	110.0		0.0	0.0	0.0	0.0	20 8
9 17 9 18	112.9 110.1	3.80 5.00	0.0 4.05	0.0 3.85	0.0 3.24	0.0 0.94	20 8 10 8
919	106.9	3.60	0.0	0.0	0.0	0.94	20 8
920	85.6	3.70	0.0	0.0	0.0	0.0	20 8
920	112.1	3.90	0.0	0.0	0.0	0.0	30 8
922	112.1	4.00	0.0	0.0	0.0	0.0	20 8
923	49.1	3.90	0.0	0.0	0.0	0.0	20 8
763	<b>₹</b> 7• 1	J . 7()	V • U	V • W	V • U	U • U	20 0

KIPAPA, HAWATI

EVENT NO.	DISTANCE (DEGREFS)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
924	102.8	4.30	0 0		-		
925	46.2		0.0	0.0	0.0	0.0	20 8
926	91.0	4.00	0.0	0.0	0.0	0.0	20 8
927	124.2	4.90	0.0	0.0	0.0	0.0	20 8
		4.60	0.0	0.0	0.0	0.0	20 8
928	48.4	3.40	0.0	0.0	0.0	0.0	20 8
929	96.3	5.10	3.98	3.78	0.0	0.65	10 8
930	95.2	4.50	0.0	0.0	0.0	0.0	30 8
931	105.7	3.70	0.0	0.0	0.0	0.0	20 8
932	44.9	5.30	4.95	4.26	0.0	0.36	10 8
933	121.5	4.70	0.0	0.0	0.0	0.0	20 8
934	123.5	3.70	0.0	0.0	0.0	0.0	30 8
935	48.9	4.00	0.0	0.0	0.0	0.0	20 8
936	48.4	3.80	0.0	0.0	0.0	0.0	20 8
937	45.6	5.20	3.88	3.90	3.42	0.98	10 8
938	104.4	4.00	0.0	0.0	0.0	0.0	20 8
939	120.3	4.30	0.0	0.0	0.0	0.0	50 8
940	105.0	5.00	0.0	0.0	0.0	0.0	20 8
941	120.3	4.30	0.0	0.0	0.0	0.0	50 8
942	115.9	4.50	0.0	0.0	0.0	0.0	
943	44.9	4.50	0.0	0.0	0.0	0.0	20 8
944	119.7	3.90	0.0	0.0	0.0		20 8
945	120.6	3.60	0.0	0.0	0.0	0.0 0.0	20 8
946	87.7	4.30	0.0	3,41	0.0	1.39	20 8
947	119.0	3.30	0.0	0.0	0.0		60 8
948	117.5	3.80	0.0	0.0	0.0	0.0	20 8
949	93.2	5.60	0.0	0.0	0.0	0.0	50 8
950	88.4	4.90	3.77	3.33	0.0	0.0	20 8
951	49.8	3.70	0.0	0.0		1.74	10 8
952	90.9	3.70	0.0	0.0	0.0	0.0	20 8
953	94.4	3.60	0.0	0.0	0.0	0.0	20 8
954	101.2	4.90	0.0	0.0	0.0	0.0	20 8
955	97.3	4.20	0.0	0.0	0.0	0.0	30 8
956	117.4	4.50	4.53	3.88	0.0	0.0	20 8
957	124.2	4.50	0.0		4.11	0.12	10 8
958	106.3	3.90	0.0	0.0	0.0	0.0	30 8
359	40.5	4.60	3.34	0.0	0.0	0.0	20 8
961	86.5	4.30	0.0	3.23	0.0	1.85	60 8
962	48.8	4.10	9.0	0.0	0.0	0.0	20 8
963	117.7	4.00	0.0	0.0	0.0	0.0	20 8
964	46.6	3.80		0.0	0.0	0.0	20 8
965	95.5	4.80	0.0	0.0	0.0	0.0	20 8
966	121.9	5.20	4.06	4.04	0.0	0.27	10 8
967	43.0		4.19	4.13	3.51	1.45	10 €
968	123.5	3.80	0.0	0.0	0.0	0.0	20 €
969		4.10	0.0	0.0	0.0	0.0	20 8
970	49.6	4.30	0.0	0.0	0.0	0.0	30 8
971	44.5	3.50	0.0	0.0	0.0	0.0	20 8
971	120.9	3.50	0.0	0.0	0.0	0.0	20 8
	119.4	4.10	0.0	0.0	0.0	0.0	20 R
1008	45.1	5.50	4.36	3.80	0.0	1.40	10 8

## KIPAPA, HAWAII

EVENT	DISTANCE	MB	MS	MS	MS	LO/I.R	COMMENT
NO.	(DEGREES)	11 13	T=20SEC	T=30SEC	T=40SEC	RATIO	COMBRE
4000			2 62				
1009	44.7	4.20	3.63	0.0	0.0	0.0	20 8
1010	45.3	4.00	3.63	0.0	0.0	0.0	20 8
1011	45.1	3.90	3.19	0.0	0.0	0.0	20 8
10 12	45.1	4.50	3.40	3.08	0.0	0.0	10 8
1013	45.1	4.40	3.48	0.0	0.0	0.0	20 8
1014	45.6	3.90	3.35	0.0	0.0	0.0	20 A
1015	46.5	3.40	0.0	0.0	0.0	0.0	30 B
1016	45.7	4.60	3.23	0.0	0.0	0.0	20 8
1017	86.2	4.20	0.0	0.0	0.0	0.0	30 8
10 18	46.2	4.70	3.37	3.07	0.0	0.0	60 8
1019	45.7	4.00	3.49	0.0	0.0	0.0	20 B
1020	45.1	3.80	3.24	0.0	0.0	0.0	20 8
1021	124.5	3.90	0.0	0.0	0.0	0.0	50 B
1022	45.7	4.10	3.13	0.0	00	0.0	20 8
1023	45.1	3.70	0.0	0.0	0 . 0	0.0	30 8
1024	44.7	4.10	3.24	0.0	0.0	0.0	20 8
1025	45.1	4.20	3.50	3.38	0.0	0.0	50 B
1026	103.0	3.70	3.38	0.0	0.0	0.0	20 8
1027	45.1	3.50	3.04	0.0	0.0	0.0	20 8
1028	119.1	3.60	3.45	0.0	0.0	0.0	20 8
1029	46.0	5.50	4.13	4.14	3.74	0.0	10 8
1030	121.9	4.60	0.0	0.0	0.0	0.0	30 8
1031	47.9	3.50	3.23	0.0 3.29	0.0	0.0	20 8
1032	45.1	4.60	3.28		0.0	0.0	10 8
1033	98.8 105.7	4.60	3.45	0.0	0.0	0.0	20 8
1034	45.6	3.70 4.60	3.53 3.56	0.0 3.32	0.0	0.0	20 8
1035 1036	45.7	4.40	3.06	0.0	0.0	0.0	10 8 20 8
1036	44.6	3.70	0.0	0.0	0.0	0.0	50 B
1037	44.5	3.90	0.0	0.0	0.0	0.0	50 B
1036	45.0	6.10	5.91	0.0	0.0	0.0	10 8
1077	45.1	4.10	0.0	0.0	0.0	0.0	50 8
1078	50.4	4.10	3.33	0.0	0.0	0.0	20 8
1079	96.9	3.60	0.0	0.0	0.0	0.0	30 8
1080	75.3	4.80	4.30	4.27	0.0	C. 19	10 8
1081	120.6	4.40	3.93	0.0	0.0	0.0	20 8
1082	49.7	4.30	3.56	0.0	0.0	0.0	20 B
1083	45.5	5.70	4.99	4.93	0.0	0.45	10 8
1084	90.3	4.50	3.99	3.91	0.0	0.0	10 B
1085	45.6	6.10	5.86	5.66	5.20	0.99	10 8
1086	122.7	4.70	4.54	0.0	0.0	0.0	20 8
1087	124.5	4.00	3.86	0.0	0.0	0.0	20 8
1088	44.3	3.90	3.52	0.0	0.0	0.0	20 8
1089	48.8	3.70	3.58	0.0	0.0	0.0	20 8
1152	45.1	4.70	0.0	0.0	0.0	0.0	50 8
1153	102.2	3.80	0.0	0.0	0.0	0.0	50 B
1154	103.3	3.80	0.0	0.0	0.0	0.0	20 8
1155	106.2	4.40	0.0	0.0	0.0	0.0	50 8
1156	105.3	3.80	0.0	0.0	0.0	0.0	50 8
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KIPAPA, HAWAII

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1157	106.0	3.70	0.0	0.0	0.0	0.0	50 8
1158	47.9	5.00	3.88	3.87	0.0	0.31	10 8
1159	120.6	3.80	4.25	0.0	0.0	0.0	20 B
1160 1161	106.0 92.6	4.00 4.30	0.0 0.0	0.0	0.0	0.0	50 8
1162	49.7	4.20	0.0	0.0 0.0	0.0	0.0	50 8
1163	49.1	3.80	0.0	0.0	0.0	0.0	50 8 50 8
1164	101.2	4.80	0.0	0.0	0.0	0.0	50 B
1165	51.1	4.30	3.90	3.45	0.0	0.0	60 8
1166	49.8	5.20	4.67	4.07	0.0	0.74	10 8
1167	101.4	3.70	0.0	0.0	0.0	0.0	30 8
1168	49.7	5.30	4.39	4.14	0.0	0.0	10 8
1169	50.2	3.60	3.69	0.0	0.0	0.0	20 8
1170	50.7	4.10	3.52	0.0	0.0	0.0	20 8
1171	121.0	4.00	3.46	0.0	0.0	0.0	20 8
1172	49.8	5.40	4.73	4.40	0.0	1.20	10 8
1173	50.4	3.90	0.0	0.0	0.0	0.0	30 8
1174	49.8	4.70	0.0	0.0	0.0	0.0	20 8
1175	49.8	4.10	0.0	0.0	0.0	0.0	50 B
1176	49.7	4.50	4.33	0.0	0.0	0.0	20 8
1177	49.8	4.20	0.0	0.0	0.0	0.0	30 8
1178	49.7	4.60	4.31	3.99	0.0	1.15	10 8
1179	49.8	4.70	0.0	0.0	0.0	0.0	30 8
1180 1181	49.9 49.8	5.30	4.69	4.39	0.0	0.70	10 8
1182	49.7	3.40 5.40	3.68 5.32	0.0 4.89	0.0 0.0	0.0	20 8
1183	49.9	4.50	0.0	0.0	0.0	0.0 0.0	10 8 30 8
1184	48.4	3.60	0.0	0.0	0.0	0.0	30 8
1185	49.8	4.20	3.76	0.0	0.0	0.0	20 8
1186	49.6	3.50	3.35	0.0	0.0	0.0	20 B
1187	49.8	4.10	3.87	3.58	0.0	0.58	10 8
1188	49.6	3.70	0.0	0.0	0.0	0.0	30 8
1189	49.6	3.30	0.0	0.0	0.0	0.0	50 8
1190	49.9	4.40	3.60	0.0	0.0	0.0	10 8
1191	49.8	4.10	0.0	0.0	0.0	0.0	30 8
1192	49.8	4.10	3.35	0.0	0.0	0.0	20 8
1193	50.2	3.60	3.12	0.0	0.0	0.0	20 8
1194	49.9	4.20	0.0	0.0	0.0	0.0	50 8
1195	50.2	3.70	0.0	0.0	0.0	0.0	50 8
1196	49.9	4.30	0.0	0.0	0.0	0.0	50 8
1197	49.K	3.60	0.0	0.0	0.0	0.0	30 8
1198 1199	49.9	4.90 4.50	0.0	0.0	0.0	0.0	50 8
1200	49.8 75.4	4.20	0.0	0.0	0.0	0.0	50 8
1201	49.6	4.20	3.51 3.31	0.0 0.0	0.0	0.0	20 B
1202	49.6	4.20	0.0	0.0	0.0	0.0 0.0	20 8 30 8
1203	49.1	3.40	0.0	0.0	0.0	0.0	30 8
1204	46.9	3.70	0.0	0.0	0.0	0.0	50 8
1205	122.5	4.30	0.0	0.0	0.0	0.0	50 8

#### KIPAPA, HAWAIT

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EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
1206	100.7	3.90	0.0	0.0	0.0	0 0	30.0
1207	44.7	3.60	3.78	0.0		0.0	30 B
1208	49.7	4.10	0.0	0.0	0.0	0.0	20 8
1209	49.5	3.70	3.13	0.0	0.0 0.0	0.0	50 R
1211	102.5	3.80	0.0	0.0	0.0	0.0	20 8
1212	45.3	4.30	0.0	0.0	0.0	0.0	50 8 50 8
1213	48.4	3.70	0.0	0.0	0.0	0.0	50 B
1214	45.0	3.40	0.0	0 0	0.0	0.0	50 8
1215	107.0	3.60	0.0	0.0	0.0	0.0	50 8
1216	91.0	3.80	0.0	0.0	0.0	0.0	56 8
1217	50.2	3.80	0.0	0.0	0.0	0.0	50 B
1218	45.1	4.20	0.0	0.0	0.0	0.0	30 8
1219	105.0	3.70	0.0	0.0	0.0	0.0	50 8
1220	98.2	3.90	0.0	0.0	0.0	0.0	50 8
1221	98.3	3.80	0.0	0.0	0.0	0.0	50 8
1222	49.8	3.70	0.0	0.0	0.0	0.0	50 8
1223	44.0	5.10	4.52	4.18	0.0	0.38	10 8
1224	105.0	3.80	0.0	0.0	0.0	0.0	50 8
1225	120.6	3.60	0.0	0.0	0.0	0.0	50 8
1226	43.3	3.70	0.0	0.0	0.0	0.0	50 8
1227	98.6	4.70	0.0	0.0	0.0	0.0	50 8
1228	106.3	3.70	0.0	0.0	0.0	0.0	50 8
1229	45.1	4.10	0.0	0.0	0.0	0.0	50 8
1230	49.8	3.50	0.0	0.0	0.0	0.0	50 8
1231	109.8	5.10	0.0	0.0	0.0	0.0	50 8
1232	45.3	5.60	0.0	0.0	0.0	0.0	50 8
1233	51.9	3.20	0.0	0.0	0.0	0.0	50 8
1234	41.9	3.40	0.0	0.0	0.0	0.0	50 8
1235	51.9	3.60	0.0	0.0	0.0	0.0	50 B
1236	93.3	5.40	0.0	0.0	0.0	0.0	50 8
1237	49.5	4.20	0.0	0.0	0.0	0.0	50 8
1238 1239	97.6	3.40	0.0	0.0	0.0	0.0	30 8
1237	121.8	4.40	0.0	0.0	0.0	0.0	50 B
1241	106.3 102.5	4.00	0.0	0.0	0.0	0.0	50 8
1242	49.1	3.40 4.00	0.0	0.0	0.0	0.0	50 B
1243	101.7	4.00	0.0	0.0	0.0	0.0	50 8
1244	49.3	3.50	0.0	0.0	0.0	0.0	30 8
1245	45.4	3.70	0.0	0.0	0.0	0.0	50 8
1246	95.5	3.60	0.0	0.0	0.0	0.0	30 8
1247	43.9	4.00	0.0	0.0	0.0	0.0 0.0	50 8 50 8
1248	45.1	3.90	0.0	0.0	0.0	0.0	50 8
1249	49.3	4.00	0.0	0.0	0.0	0.0	50 8
1250	46.2	4.10	0.0	0.0	0.0	0.0	50 8 50 8
1251	45.4	3.90	0.0	0.0	0.0	0.0	50 B
1252	44.7	3.40	5.69	0.0	0.0	0.0	20 8
1253	48.8	3.80	3.43	0.0	0.0	0.0	20 8
1254	121.9	4.60	0.0	0.0	0.0	0.0	50 8
1255	45.9	3.60	0.0	0.0	0.0	0.0	50 8

# KIPAPA, HAWATI

FVENT NO.	DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1256 1258 1259 1260 1261 1262 1266 1267 1268 1269 1270 1271 1273 1274 1275 1276 1277	45.0 51.0 45.2 46.0 46.0 45.9 93.2 92.7 103.4 97.3 82.8 101.1 101.6 93.2 99.5 85.1 85.2 85.0	3.30 3.90 4.00 4.80 3.50 3.70 5.40 6.30 5.30 5.30 5.20 5.20 5.30 4.80 4.80 4.80	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.66 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	50 8 50 8 50 8 50 8 50 8 50 8 50 8 50 8
1280	92.6	6.00	0.0	3.58	0.0 3.34	0.0	50 8 10 8

APPENDIX II-K
BASIC DATA FOR
ALBUQUERQUE, NEW MEXICO (ALQ)

PVRNT   NO.   (DEGREES)   NB								
311 93.0 3.60 0.0 0.0 0.0 0.0 50 9 312 96.6 3.70 0.0 0.0 0.0 0.0 0.0 50 9 313 93.0 4.10 0.0 0.0 0.0 0.0 0.0 50 9 314 61.8 3.80 0.0 0.0 0.0 0.0 0.0 50 9 315 112.2 4.10 0.0 0.0 0.0 0.0 0.0 50 9 316 70.5 3.80 0.0 0.0 0.0 0.0 0.0 50 9 317 102.7 3.70 0.0 0.0 0.0 0.0 0.0 50 9 318 102.7 3.70 0.0 0.0 0.0 0.0 0.0 50 9 319 101.8 3.50 0.0 0.0 0.0 0.0 0.0 50 9 320 102.8 3.90 0.0 0.0 0.0 0.0 0.0 50 9 321 107.0 3.70 0.0 0.0 0.0 0.0 0.0 50 9 322 103.6 45.0 0.0 0.0 0.0 0.0 0.0 50 9 322 113.2 4.20 0.0 0.0 0.0 0.0 0.0 50 9 324 113.2 4.20 0.0 0.0 0.0 0.0 50 9 325 65.8 4.00 0.0 0.0 0.0 0.0 50 9 326 61.6 3.50 0.0 0.0 0.0 0.0 50 9 327 59.7 3.40 0.0 0.0 0.0 0.0 50 9 328 61.6 3.50 0.0 0.0 0.0 0.0 50 9 329 104.2 4.10 0.0 0.0 0.0 0.0 50 9 330 108.6 3.50 0.0 0.0 0.0 0.0 50 9 331 61.8 4.00 0.0 0.0 0.0 0.0 50 9 331 61.8 4.00 0.0 0.0 0.0 0.0 50 9 333 61.8 4.00 0.0 0.0 0.0 0.0 0.0 50 9 333 106.4 3.90 0.0 0.0 0.0 0.0 0.0 50 9 333 106.4 3.90 0.0 0.0 0.0 0.0 0.0 50 9 334 115.2 4.80 0.0 0.0 0.0 0.0 0.0 50 9 335 58.0 4.00 3.21 3.03 2.78 0.46 10 9 336 76.1 3.40 0.0 0.0 0.0 0.0 0.0 50 9 337 69.4 3.60 0.0 0.0 0.0 0.0 0.0 50 9 348 115.2 4.80 0.0 0.0 0.0 0.0 0.0 50 9 349 76.1 3.40 0.0 0.0 0.0 0.0 0.0 50 9 340 60.4 3.80 0.0 0.0 0.0 0.0 0.0 50 9 341 108.6 5.40 4.90 3.21 3.03 2.78 0.46 10 9 345 122.7 4.30 0.0 0.0 0.0 0.0 0.0 50 9 346 108.4 4.90 0.0 0.0 0.0 0.0 0.0 50 9 347 99.2 4.50 0.0 0.0 0.0 0.0 0.0 50 9 348 113.2 4.70 0.0 0.0 0.0 0.0 0.0 50 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.			MB				•	COMMENT
311 93.0 3.60 0.0 0.0 0.0 0.0 50 9 312 96.6 3.70 0.0 0.0 0.0 0.0 0.0 50 9 313 93.0 4.10 0.0 0.0 0.0 0.0 0.0 50 9 314 61.8 3.80 0.0 0.0 0.0 0.0 0.0 50 9 315 112.2 4.10 0.0 0.0 0.0 0.0 0.0 50 9 316 70.5 3.80 0.0 0.0 0.0 0.0 0.0 50 9 317 102.7 3.70 0.0 0.0 0.0 0.0 0.0 50 9 318 102.7 3.70 0.0 0.0 0.0 0.0 0.0 50 9 319 101.8 3.50 0.0 0.0 0.0 0.0 0.0 50 9 320 102.8 3.90 0.0 0.0 0.0 0.0 0.0 50 9 321 107.0 3.70 0.0 0.0 0.0 0.0 0.0 50 9 322 103.6 45.0 0.0 0.0 0.0 0.0 0.0 50 9 322 113.2 4.20 0.0 0.0 0.0 0.0 0.0 50 9 324 113.2 4.20 0.0 0.0 0.0 0.0 50 9 325 65.8 4.00 0.0 0.0 0.0 0.0 50 9 326 61.6 3.50 0.0 0.0 0.0 0.0 50 9 327 59.7 3.40 0.0 0.0 0.0 0.0 50 9 328 61.6 3.50 0.0 0.0 0.0 0.0 0.0 50 9 329 104.2 4.10 0.0 0.0 0.0 0.0 50 9 331 61.8 4.00 0.0 0.0 0.0 0.0 50 9 331 61.8 4.00 0.0 0.0 0.0 0.0 0.0 50 9 333 106.4 3.90 0.0 0.0 0.0 0.0 0.0 50 9 333 106.4 3.90 0.0 0.0 0.0 0.0 0.0 50 9 333 106.4 3.90 0.0 0.0 0.0 0.0 0.0 50 9 333 106.4 3.90 0.0 0.0 0.0 0.0 0.0 50 9 334 115.2 4.80 0.0 0.0 0.0 0.0 0.0 50 9 335 58.0 4.00 3.21 3.03 2.78 0.46 10 9 336 69.4 3.60 0.0 0.0 0.0 0.0 0.0 50 9 337 69.4 3.60 0.0 0.0 0.0 0.0 0.0 50 9 349 76.1 3.40 0.0 0.0 0.0 0.0 0.0 50 9 340 60.4 3.80 0.0 0.0 0.0 0.0 0.0 50 9 341 108.6 5.40 4.00 3.21 3.03 2.78 0.46 10 9 345 122.7 4.30 0.0 0.0 0.0 0.0 0.0 50 9 346 108.6 4.70 0.0 0.0 0.0 0.0 0.0 50 9 347 98.2 4.50 0.0 0.0 0.0 0.0 0.0 50 9 348 113.2 4.70 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 77.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30 9 340 60.4 3.80 0.0 0.0 0.0 0.0 0.0 0.0 30 9 341 108.6 5.40 4.90 3.87 3.58 2.91 4.60 10 9 345 122.7 4.30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30 9 346 108.6 4.70 0.0 0.0 0.0 0.0 0.0 0.0 30 9 347 98.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30 9 348 113.2 4.70 0.0 0.0 0.0 0.0 0.0 0.0 30 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	310	70.4	3.90	0 0	0 0	0 0	0 0	50.0
312 96.6 3.70 0.0 0.0 0.0 0.0 50 9 3114 61.8 3.80 0.0 0.0 0.0 0.0 0.0 50 9 3115 112.2 4.10 0.0 0.0 0.0 0.0 0.0 50 9 3116 70.5 3.80 0.0 0.0 0.0 0.0 0.0 50 9 3117 102.7 3.80 0.0 0.0 0.0 0.0 0.0 50 9 3118 102.7 3.70 0.0 0.0 0.0 0.0 0.0 50 9 319 101.8 3.50 0.0 0.0 0.0 0.0 0.0 50 9 320 102.8 3.90 0.0 0.0 0.0 0.0 0.0 50 9 321 107.0 3.70 0.0 0.0 0.0 0.0 0.0 50 9 322 107.8 3.90 0.0 0.0 0.0 0.0 0.0 50 9 323 103.6 *5.00 0.0 0.0 0.0 0.0 0.0 50 9 324 113.2 4.20 0.0 0.0 0.0 0.0 0.0 50 9 326 65.8 4.00 0.0 0.0 0.0 0.0 0.0 50 9 327 59.7 3.40 0.0 0.0 0.0 0.0 50 9 328 61.6 3.50 0.0 0.0 0.0 0.0 0.0 50 9 329 104.2 4.10 0.0 0.0 0.0 0.0 50 9 331 61.8 4.00 0.0 0.0 0.0 0.0 50 9 331 61.8 4.00 0.0 0.0 0.0 0.0 50 9 331 61.8 4.00 0.0 0.0 0.0 0.0 50 9 332 92.7 4.22 0.0 0.0 0.0 0.0 0.0 50 9 333 161.8 4.00 0.0 0.0 0.0 0.0 0.0 50 9 333 161.8 4.00 0.0 0.0 0.0 0.0 0.0 50 9 334 115.2 4.20 0.0 0.0 0.0 0.0 0.0 50 9 335 58.0 4.00 3.21 3.03 2.78 0.46 10 9 336 76.1 3.40 0.0 0.0 0.0 0.0 0.0 50 9 337 69.4 3.60 0.0 0.0 0.0 0.0 0.0 50 9 338 61.6 4.7 4.00 0.0 0.0 0.0 0.0 0.0 50 9 344 108.6 5.40 4.37 4.27 4.05 1.16 10 9 345 122.7 4.30 0.0 0.0 0.0 0.0 0.0 50 9 346 122.7 4.30 0.0 0.0 0.0 0.0 0.0 50 9 347 108.6 5.40 4.37 4.27 4.05 1.16 10 9 348 113.2 4.70 0.0 0.0 0.0 0.0 0.0 50 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 50 9 340 108.6 5.40 4.90 3.61 3.58 2.91 4.60 10 9 341 108.6 5.40 4.90 3.61 3.58 2.91 4.60 10 9 341 108.6 5.40 4.90 3.61 3.58 2.91 4.60 10 9 341 108.6 5.40 4.90 3.61 3.58 2.91 4.60 10 9 341 108.6 5.40 4.90 3.61 3.58 2.91 4.60 10 9 341 108.6 5.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.								
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317         102.7         3.80         0.0         0.0         0.0         0.0         50         50         9           318         102.7         3.70         0.0         0.0         0.0         0.0         50         9           320         102.8         3.90         0.0         0.0         0.0         0.0         50         9           321         107.0         3.70         0.0         0.0         0.0         0.0         50         9           323         103.6         *5.00         0.0         0.0         0.0         0.0         50         9           324         113.2         4.20         0.0         0.0         0.0         0.0         50         9           326         65.8         4.00         0.0         0.0         0.0         0.0         50         9           327         59.7         3.40         0.0         0.0         0.0         0.0         50         9           328         61.6         3.50         0.0         0.0         0.0         0.0         50         9           330         108.6         3.50         0.0         0.0         0.0         0.0<								
318         102.7         3.70         0.0         0.0         0.0         0.0         50         9           319         101.8         3.50         0.0         0.0         0.0         0.0         50         9           321         107.0         3.70         0.0         0.0         0.0         0.0         50         9           321         107.0         3.70         0.0         0.0         0.0         0.0         50         9           323         103.6         *5.00         0.0         0.0         0.0         0.0         50         9           324         113.2         4.20         0.0         0.0         0.0         0.0         50         9           326         65.8         4.00         0.0         0.0         0.0         0.0         50         9           328         61.6         3.50         0.0         0.0         0.0         0.0         0.0         50         9           337         61.8         4.00         0.0         0.0         0.0         0.0         50         9           333         106.4         3.90         0.0         0.0         0.0         0.0								
319 101.8 3.50 0.0 0.0 0.0 0.0 0.0 50 9 320 102.8 3.90 0.0 0.0 0.0 0.0 0.0 50 9 321 107.0 3.70 0.0 0.0 0.0 0.0 0.0 50 9 323 103.6 *5.00 0.0 0.0 0.0 0.0 0.0 50 9 324 113.2								
320         102.8         3.90         0.0         0.0         0.0         0.0         50.5         5         5         5         321         107.0         3.70         0.0         0.0         0.0         50.9         9         324         113.2         4.20         0.0         0.0         0.0         0.0         50.9         324         113.2         4.20         0.0         0.0         0.0         0.0         50.9         326         65.8         4.00         0.0         0.0         0.0         0.0         50.9         327         59.7         3.40         0.0         0.0         0.0         0.0         50.9         328         61.6         3.50         0.0         0.0         0.0         0.0         50.9         329         104.2         4.10         0.0         0.0         0.0         0.0         50.9         331         61.8         4.00         0.0         0.0         0.0         0.0         50.9         332         92.7         4.20         0.0         0.0         0.0         0.0         50.9         3334         115.2         4.80         0.0         0.0         0.0         0.0         50.9         3334         115.2         4.80         0.0								
321 107.0 3.70 0.0 0.0 0.0 0.0 0.0 50 9 323 103.6 *5.00 0.0 0.0 0.0 0.0 0.0 50 9 324 113.2 4.20 0.0 0.0 0.0 0.0 0.0 53 9 326 65.8 4.00 0.0 0.0 0.0 0.0 0.0 50 9 327 59.7 3.40 0.0 0.0 0.0 0.0 0.0 50 9 328 61.6 3.50 0.0 0.0 0.0 0.0 0.0 50 9 329 104.2 4.10 0.0 0.0 0.0 0.0 0.0 50 9 330 108.6 3.50 0.0 0.0 0.0 0.0 0.0 50 9 331 61.8 4.00 0.0 0.0 0.0 0.0 0.0 50 9 332 92.7 4.20 0.0 0.0 0.0 0.0 0.0 50 9 333 106.4 3.90 0.0 0.0 0.0 0.0 0.0 50 9 334 115.2 4.80 0.0 0.0 0.0 0.0 50 9 335 58.0 4.00 3.21 3.03 2.78 0.46 10 9 336 76.1 3.40 0.0 0.0 0.0 0.0 0.0 50 9 337 69.4 3.60 0.0 0.0 0.0 0.0 0.0 20 9 338 51.6 4.70 0.0 0.0 0.0 0.0 0.0 20 9 341 108.6 5.40 4.37 4.27 4.05 1.16 10 9 3440 60.4 3.80 0.0 0.0 0.0 0.0 0.0 30 9 341 108.6 5.40 4.37 4.27 4.05 1.16 10 9 3441 108.6 5.40 4.37 4.27 4.05 1.16 10 9 3442 106.4 4.90 0.0 0.0 0.0 0.0 0.0 50 9 3451 122.7 4.30 0.0 0.0 0.0 0.0 0.0 50 9 346 108.6 4.90 3.61 3.36 0.0 0.58 10 9 347 98.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 30 9 348 113.2 4.70 0.0 0.0 0.0 0.0 0.0 30 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 30 9 340 132.4 4.90 3.61 3.36 0.0 0.0 0.0 30 9 341 108.7 4.90 3.61 3.36 0.0 0.58 10 9 340 381 175.4 4.60 0.0 0.0 0.0 0.0 0.0 50 9 347 98.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 30 9 348 113.2 4.70 0.0 0.0 0.0 0.0 0.0 0.0 30 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 30 9 340 105.1 4.38 4.90 4.31 4.01 0.0 0.0 0.0 0.0 30 9 341 105.1 4.40 0.0 0.0 0.0 0.0 0.0 0.0 50 9 348 79.6 3.40 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 74.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 74.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 74.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 74.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 74.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 74.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 74.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 50 9 349 74.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0								
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324 113.2 4.20 0.0 0.0 0.0 0.0 0.0 53 9 326 65.8 4.00 0.0 0.0 0.0 0.0 0.0 50 9 327 59.7 3.40 0.0 0.0 0.0 0.0 0.0 50 9 328 61.6 3.50 0.0 0.0 0.0 0.0 0.0 50 9 329 104.2 4.10 0.0 0.0 0.0 0.0 0.0 50 9 330 108.6 3.50 0.0 0.0 0.0 0.0 0.0 50 9 331 61.8 4.00 0.0 0.0 0.0 0.0 0.0 50 9 332 92.7 4.20 0.0 0.0 0.0 0.0 0.0 50 9 333 106.4 3.90 0.0 0.0 0.0 0.0 0.0 50 9 334 115.2 4.80 0.0 0.0 0.0 0.0 0.0 50 9 335 58.0 4.00 3.21 3.03 2.78 0.46 10 9 336 76.1 3.40 0.0 0.0 0.0 0.0 0.0 20 9 337 69.4 3.60 0.0 0.0 0.0 0.0 0.0 20 9 338 51.6 4.70 0.0 0.0 0.0 0.0 0.0 20 9 339 95.2 5.50 0.0 0.0 0.0 0.0 0.0 50 9 341 108.6 5.40 4.37 4.27 4.05 1.16 10 9 342 106.4 4.90 0.0 0.0 0.0 0.0 0.0 0.0 30 9 344 99.4 4.10 0.0 0.0 0.0 0.0 0.50 9 345 122.7 4.30 0.0 0.0 0.0 0.0 0.50 9 346 108.6 4.70 0.0 0.0 0.0 0.0 0.50 9 347 98.2 4.50 0.0 0.0 0.0 0.0 0.0 50 9 347 98.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 50 9 348 113.2 4.70 0.0 0.0 0.0 0.0 0.0 50 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 50 9 340 113.2 4.70 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30 9 347 98.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30 9 347 98.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30 9 347 98.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30 9 348 113.2 4.70 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30 9 349 71.5 4.40 0.0 0.0 0.0 0.0 0.0 0.0 0.0 30 9 386 59.5 5.00 3.73 3.58 2.91 4.60 10 9 387 70.4 3.90 0.0 0.0 0.0 0.0 0.0 0.0 50 9 388 74.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 50 9 388 74.2 4.50 0.0 0.0 0.0 0.0 0.0 0.0 50 9 389 68.7 4.10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 50 9 389 68.7 4.10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0								
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327         59.7         3.40         0.0         0.0         0.0         0.0         0.0         50.9         9           328         61.6         3.50         0.0         0.0         0.0         0.0         50.9         9           330         108.6         3.50         0.0         0.0         0.0         0.0         50.9         9           331         61.8         4.00         0.0         0.0         0.0         0.0         50.9         9           332         92.7         4.20         0.0         0.0         0.0         0.0         50.9         9           333         106.4         3.90         0.0         0.0         0.0         0.0         50.9         9           334         115.2         4.80         0.0         0.0         0.0         0.0         50.9         9           335         58.0         4.00         3.21         3.03         2.78         0.46         10.9           337         69.4         3.60         0.0         0.0         0.0         0.0         20.9         9           338         51.6         4.70         0.0         0.0         0.0         0.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
328         61.6         3.50         0.0         0.0         0.0         0.0         0.0         50.9         329         104.2         4.10         0.0         0.0         0.0         0.0         50.9         330         108.6         3.50         0.0         0.0         0.0         0.0         50.9         331         61.8         4.00         0.0         0.0         0.0         0.0         50.9         9           332         92.7         4.20         0.0         0.0         0.0         0.0         50.9         9           333         106.4         3.90         0.0         0.0         0.0         0.0         50.9         9           334         115.2         4.80         0.0         0.0         0.0         0.0         50.9         9           335         58.0         4.00         3.21         3.03         2.78         0.46         10.9         336         76.1         3.40         0.0         0.0         0.0         0.0         20.9         9         338         61.6         4.70         0.0         0.0         0.0         0.0         20.9         338         61.6         4.70         0.0         0.0         0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
329         104.2         4.10         0.0         0.0         0.0         0.0         50 9           330         108.6         3.50         0.0         0.0         0.0         0.0         50 9           331         61.8         4.00         0.0         0.0         0.0         0.0         50 9           332         92.7         4.20         0.0         0.0         0.0         0.0         50 9           333         106.4         3.90         0.0         0.0         0.0         0.0         50 9           334         115.2         4.80         0.0         0.0         0.0         0.0         50 9           336         76.1         3.40         0.0         0.0         0.0         0.0         0.0         20 9           337         69.4         3.60         0.0         0.0         0.0         0.0         20 9           338         51.6         4.70         0.0         0.0         0.0         0.0         20 9           3440         60.4         3.80         0.0         0.0         0.0         0.0         50 9           3441         108.6         5.40         4.37         4.27 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
330         108.6         3.50         0.0         0.0         0.0         0.0         50.9           331         61.8         4.00         0.0         0.0         0.0         0.0         50.9           332         92.7         4.20         0.0         0.0         0.0         0.0         50.9           333         106.4         3.90         0.0         0.0         0.0         0.0         50.9           334         115.2         4.80         0.0         0.0         0.0         0.0         50.9           335         58.0         4.00         3.21         3.03         2.78         0.46         10.9           337         69.4         3.60         0.0         0.0         0.0         0.0         0.0         20.9           338         51.6         4.70         0.0         0.0         0.0         0.0         50.9           340         60.4         3.80         0.0         0.0         0.0         0.0         50.9           341         108.6         5.40         4.37         4.27         4.05         1.16         10.9           342         106.4         4.90         3.61         3.								
331         61.8         4.00         0.0         0.0         0.0         0.0         50.9           332         92.7         4.20         0.0         0.0         0.0         0.0         50.9           333         106.4         3.90         0.0         0.0         0.0         0.0         50.9           334         115.2         4.80         0.0         0.0         0.0         0.0         50.9           335         58.0         4.00         3.21         3.03         2.78         0.46         10.9           336         76.1         3.40         0.0         0.0         0.0         0.0         20.9           337         69.4         3.60         0.0         0.0         0.0         0.0         20.9           338         61.6         4.70         0.0         0.0         0.0         0.0         20.9           3440         60.4         3.80         0.0         0.0         0.0         0.0         20.9           3440         60.4         3.80         0.0         0.0         0.0         0.0         30.9           3441         108.6         5.40         4.37         4.27         4.05								
332         92.7         4.20         0.0         0.0         0.0         0.0         50         9           333         106.4         3.90         0.0         0.0         0.0         0.0         50         9           334         115.2         4.80         0.0         0.0         0.0         0.0         50         9           335         58.0         4.00         3.21         3.03         2.78         0.46         10         9           337         69.4         3.60         0.0         0.0         0.0         0.0         20         9           338         51.6         4.70         0.0         0.0         0.0         0.0         20         9           339         95.2         5.50         0.0         0.0         0.0         0.0         50         9           340         60.4         3.80         0.0         0.0         0.0         0.0         30         9           341         108.6         5.40         4.37         4.27         4.05         1.16         10         9           344         106.4         4.90         3.61         3.36         0.0         0.58								
3.33         106.4         3.90         0.0         0.0         0.0         0.0         50.9           3.34         115.2         4.80         0.0         0.0         0.0         0.0         50.9           3.35         58.0         4.00         3.21         3.03         2.78         0.46         10         9           3.36         76.1         3.40         0.0         0.0         0.0         0.0         0.0         20.9         9           3.37         69.4         3.60         0.0         0.0         0.0         0.0         0.0         20.9         9           3.38         51.6         4.70         0.0         0.0         0.0         0.0         0.0         50.9         9           3.39         95.2         5.50         0.0         0.0         0.0         0.0         50.9         3         341         108.6         5.40         4.37         4.27         4.05         1.16         10.9         342         106.4         4.90         3.61         3.36         0.0         0.0         0.0         20.9         3443         108.7         4.90         3.61         3.36         0.0         0.58         10.9								
334       115.2       4.80       0.0       0.0       0.0       0.0       50 9         335       58.0       4.00       3.21       3.03       2.78       0.46       10 9         336       76.1       3.40       0.0       0.0       0.0       0.0       0.0       20 9         337       69.4       3.60       0.0       0.0       0.0       0.0       0.0       20 9         338       51.6       4.70       0.0       0.0       0.0       0.0       50 9         340       60.4       3.80       0.0       0.0       0.0       0.0       50 9         341       108.6       5.40       4.37       4.27       4.05       1.16       10 9         342       106.4       4.90       0.0       0.0       0.0       0.0       20 9         343       108.7       4.90       3.61       3.36       0.0       0.58       10 9         344       99.4       4.10       0.0       0.0       0.0       0.0       50 9         345       122.7       4.30       0.0       0.0       0.0       0.0       50 9         346       108.6       4.70 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
335         58.0         4.00         3.21         3.03         2.78         0.46         10 9           336         76.1         3.40         0.0         0.0         0.0         0.0         20 9           337         69.4         3.60         0.0         0.0         0.0         0.0         20 9           338         51.6         4.70         0.0         0.0         0.0         0.0         50 9           339         95.2         5.50         0.0         0.0         0.0         0.0         50 9           340         60.4         3.80         0.0         0.0         0.0         0.0         30 9           341         108.6         5.40         4.37         4.27         4.05         1.16         10 9           342         106.4         4.90         0.0         0.0         0.0         0.0         20 9           343         108.7         4.90         3.61         3.36         0.0         0.58         10 9           344         99.4         4.10         0.0         0.0         0.0         0.58         10 9           345         122.7         4.30         0.0         0.0								
336         76.1         3.40         0.0         0.0         0.0         0.0         20 9           337         69.4         3.60         0.0         0.0         0.0         0.0         20 9           338         51.6         4.70         0.0         0.0         0.0         0.0         50 9           339         95.2         5.50         0.0         0.0         0.0         0.0         50 9           340         60.4         3.80         0.0         0.0         0.0         0.0         30 9           341         108.6         5.40         4.37         4.27         4.05         1.16         10 9           342         106.4         4.90         3.61         3.36         0.0         0.58         10 9           343         108.7         4.90         3.61         3.36         0.0         0.58         10 9           344         99.4         4.10         0.0         0.0         0.0         0.58         10 9           345         122.7         4.30         0.0         0.0         0.0         0.0         50 9           347         98.2         4.50         0.0         0.0         0								
337         69.4         3.60         0.0         0.0         0.0         0.0         20.9           338         51.6         4.70         0.0         0.0         0.0         0.0         50.9           339         95.2         5.50         0.0         0.0         0.0         0.0         50.9           340         60.4         3.80         0.0         0.0         0.0         0.0         30.9           341         108.6         5.40         4.37         4.27         4.05         1.16         10.9           342         106.4         4.90         0.0         0.0         0.0         0.0         20.9           343         108.7         4.90         3.61         3.36         0.0         0.58         10.9           344         99.4         4.10         0.0         0.0         0.0         50.9         9           345         122.7         4.30         0.0         0.0         0.0         50.9         9           346         108.6         4.70         0.0         0.0         0.0         0.0         50.9           348         113.2         4.70         0.0         0.0         0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
338       61.6       4.70       0.0       0.0       0.0       0.0       50.9         339       95.2       5.50       0.0       0.0       0.0       0.0       0.0       50.9         340       60.4       3.80       0.0       0.0       0.0       0.0       30.9         341       108.6       5.40       4.37       4.27       4.05       1.16       10.9         342       106.4       4.90       0.0       0.0       0.0       0.0       20.9         343       108.7       4.90       3.61       3.36       0.0       0.58       10.9         344       99.4       4.10       0.0       0.0       0.0       0.58       10.9         345       122.7       4.30       0.0       0.0       0.0       0.0       50.9         346       108.6       4.70       0.0       0.0       0.0       0.0       50.9         349       71.5       4.40       0.0       0.0       0.0       0.0       30.9         350       97.6       4.90       3.87       3.58       2.91       4.60       10.9         381       75.4       4.60       0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
339       95.2       5.50       0.0       0.0       0.0       0.0       0.0       30.9         340       60.4       3.80       0.0       0.0       0.0       0.0       30.9         341       108.6       5.40       4.37       4.27       4.05       1.16       10.9         342       106.4       4.90       0.0       0.0       0.0       0.0       20.9         343       108.7       4.90       3.61       3.36       0.0       0.58       10.9         344       99.4       4.10       0.0       0.0       0.0       0.0       50.9         345       122.7       4.30       0.0       0.0       0.0       0.0       50.9         346       108.6       4.70       0.0       0.0       0.0       0.0       50.9         347       98.2       4.50       0.0       0.0       0.0       0.0       30.9         348       113.2       4.70       0.0       0.0       0.0       0.0       30.9         350       97.6       4.90       3.87       3.58       2.91       4.60       10.9         381       75.4       4.60       0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
340       60.4       3.80       0.0       0.0       0.0       0.0       30.9         341       108.6       5.40       4.37       4.27       4.05       1.16       10.9         342       106.4       4.90       0.0       0.0       0.0       0.0       20.9         343       108.7       4.90       3.61       3.36       0.0       0.58       10.9         344       99.4       4.10       0.0       0.0       0.0       0.0       50.9         345       122.7       4.30       0.0       0.0       0.0       0.0       50.9         346       108.6       4.70       0.0       0.0       0.0       0.0       50.9         347       98.2       4.50       0.0       0.0       0.0       0.0       30.9         348       113.2       4.70       0.0       0.0       0.0       0.0       30.9         349       71.5       4.40       0.0       0.0       0.0       0.0       30.9         351       43.8       4.90       4.31       4.01       0.0       0.0       10.9         381       75.4       4.60       0.0       0.0								
341       108.6       5.40       4.37       4.27       4.05       1.16       10 9         342       106.4       4.90       0.0       0.0       0.0       0.0       20 9         343       108.7       4.90       3.61       3.36       0.0       0.58       10 9         344       99.4       4.10       0.0       0.0       0.0       0.0       50 9         345       122.7       4.30       0.0       0.0       0.0       0.0       50 9         346       108.6       4.70       0.0       0.0       0.0       0.0       50 9         347       98.2       4.50       0.0       0.0       0.0       0.0       30 9         348       113.2       4.70       0.0       0.0       0.0       0.0       30 9         349       71.5       4.40       0.0       0.0       0.0       0.0       30 9         350       97.6       4.90       3.87       3.58       2.91       4.60       10 9         381       75.4       4.60       0.0       0.0       0.0       0.0       30 9         384       105.1       4.30       0.0       0.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
342       106.4       4.90       0.0       0.0       0.0       0.0       20 9         343       108.7       4.90       3.61       3.36       0.0       0.58       10 9         344       99.4       4.10       0.0       0.0       0.0       0.0       50 9         345       122.7       4.30       0.0       0.0       0.0       0.0       50 9         346       108.6       4.70       0.0       0.0       0.0       0.0       50 9         347       98.2       4.50       0.0       0.0       0.0       0.0       30 9         348       113.2       4.70       0.0       0.0       0.0       0.0       30 9         349       71.5       4.40       0.0       0.0       0.0       0.0       30 9         350       97.6       4.90       3.87       3.58       2.91       4.60       10 9         351       43.8       4.90       4.31       4.01       0.0       0.0       10 9         381       75.4       4.60       0.0       0.0       0.0       0.0       50 9         384       105.1       4.30       0.0       0.0								
343       108.7       4.90       3.61       3.36       0.0       0.58       10 9         344       99.4       4.10       0.0       0.0       0.0       0.0       50 9         345       122.7       4.30       0.0       0.0       0.0       0.0       50 9         346       108.6       4.70       0.0       0.0       0.0       0.0       50 9         347       98.2       4.50       0.0       0.0       0.0       0.0       30 9         348       113.2       4.70       0.0       0.0       0.0       0.0       30 9         349       71.5       4.40       0.0       0.0       0.0       0.0       30 9         350       97.6       4.90       3.87       3.58       2.91       4.60       10 9         351       43.8       4.90       4.31       4.01       0.0       0.0       10 9         381       75.4       4.60       0.0       0.0       0.0       0.0       30 9         384       105.1       4.30       0.0       0.0       0.0       0.0       50 9         385       96.3       4.40       0.0       0.0								
344       99.4       4.10       0.0       0.0       0.0       0.0       50.9         345       122.7       4.30       0.0       0.0       0.0       0.0       50.9         346       108.6       4.70       0.0       0.0       0.0       0.0       50.9         347       98.2       4.50       0.0       0.0       0.0       0.0       0.0       30.9         348       113.2       4.70       0.0       0.0       0.0       0.0       0.0       20.9         349       71.5       4.40       0.0       0.0       0.0       0.0       30.9         350       97.6       4.90       3.87       3.58       2.91       4.60       10.9         351       43.8       4.90       4.31       4.01       0.0       0.0       10.9         381       75.4       4.60       0.0       0.0       0.0       0.0       30.9         384       105.1       4.30       0.0       0.0       0.0       0.0       50.9         385       96.3       4.40       0.0       0.0       0.0       0.0       50.9         388       74.2       4.50								
345       122.7       4.30       0.0       0.0       0.0       0.0       50 9         346       108.6       4.70       0.0       0.0       0.0       0.0       50 9         347       98.2       4.50       0.0       0.0       0.0       0.0       30 9         348       113.2       4.70       0.0       0.0       0.0       0.0       0.0       20 9         349       71.5       4.40       0.0       0.0       0.0       0.0       0.0       30 9         350       97.6       4.90       3.87       3.58       2.91       4.60       10 9         351       43.8       4.90       4.31       4.01       0.0       0.0       10 9         381       75.4       4.60       0.0       0.0       0.0       0.0       30 9         383       70.4       3.90       0.0       0.0       0.0       0.0       50 9         384       105.1       4.30       0.0       0.0       0.0       0.0       50 9         386       59.5       5.00       3.73       3.67       3.41       0.0       10 9         389       68.7       4.10								
346       108.6       4.70       0.0       0.0       0.0       0.0       50 9         347       98.2       4.50       0.0       0.0       0.0       0.0       30 9         348       113.2       4.70       0.0       0.0       0.0       0.0       20 9         349       71.5       4.40       0.0       0.0       0.0       0.0       30 9         350       97.6       4.90       3.87       3.58       2.91       4.60       10 9         351       43.8       4.90       4.31       4.01       0.0       0.0       10 9         381       75.4       4.60       0.0       0.0       0.0       0.0       30 9         383       70.4       3.90       0.0       0.0       0.0       0.0       50 9         384       105.1       4.30       0.0       0.0       0.0       0.0       50 9         385       96.3       4.40       0.0       0.0       0.0       0.0       50 9         386       59.5       5.00       3.73       3.67       3.41       0.0       10 9         389       68.7       4.10       0.0       0.0								
347       98.2       4.50       0.0       0.0       0.0       0.0       30.9         348       113.2       4.70       0.0       0.0       0.0       0.0       0.0       20.9         349       71.5       4.40       0.0       0.0       0.0       0.0       30.9         350       97.6       4.90       3.87       3.58       2.91       4.60       10.9         351       43.8       4.90       4.31       4.01       0.0       0.0       10.9         381       75.4       4.60       0.0       0.0       0.0       0.0       30.9         383       70.4       3.90       0.0       0.0       0.0       0.0       50.9         384       105.1       4.30       0.0       0.0       0.0       0.0       50.9         385       96.3       4.40       0.0       0.0       0.0       0.0       50.9         386       59.5       5.00       3.73       3.67       3.41       0.0       10.9         388       74.2       4.50       0.0       0.0       0.0       0.0       50.9         389       68.7       4.10       0.0								
348       113.2       4.70       0.0       0.0       0.0       0.0       20 9         349       71.5       4.40       0.0       0.0       0.0       0.0       30 9         350       97.6       4.90       3.87       3.58       2.91       4.60       10 9         351       43.8       4.90       4.31       4.01       0.0       0.0       10 9         381       75.4       4.60       0.0       0.0       0.0       0.0       30 9         383       70.4       3.90       0.0       0.0       0.0       0.0       50 9         384       105.1       4.30       0.0       0.0       0.0       0.0       50 9         385       96.3       4.40       0.0       0.0       0.0       0.0       50 9         386       59.5       5.00       3.73       3.67       3.41       0.0       10 9         388       74.2       4.50       0.0       0.0       0.0       0.0       50 9         389       68.7       4.10       0.0       0.0       0.0       0.0       0.0       20 9         390       112.4       4.00       0.0								
349       71.5       4.40       0.0       0.0       0.0       0.0       30.9         350       97.6       4.90       3.87       3.58       2.91       4.60       10.9         351       43.8       4.90       4.31       4.01       0.0       0.0       10.9         381       75.4       4.60       0.0       0.0       0.0       0.0       30.9         383       70.4       3.90       0.0       0.0       0.0       0.0       50.9         384       105.1       4.30       0.0       0.0       0.0       0.0       50.9         385       96.3       4.40       0.0       0.0       0.0       0.0       50.9         386       59.5       5.00       3.73       3.67       3.41       0.0       10.9         388       74.2       4.50       0.0       0.0       0.0       0.0       50.9         389       68.7       4.10       0.0       0.0       0.0       0.0       0.0       20.9         390       112.4       4.00       0.0       0.0       0.0       0.0       0.0       30.9								
350       97.6       4.90       3.87       3.58       2.91       4.60       10 9         351       43.8       4.90       4.31       4.01       0.0       0.0       10 9         381       75.4       4.60       0.0       0.0       0.0       0.0       30 9         383       70.4       3.90       0.0       0.0       0.0       0.0       50 9         384       105.1       4.30       0.0       0.0       0.0       0.0       50 9         385       96.3       4.40       0.0       0.0       0.0       0.0       50 9         386       59.5       5.00       3.73       3.67       3.41       0.0       10 9         388       74.2       4.50       0.0       0.0       0.0       0.0       50 9         389       68.7       4.10       0.0       0.0       0.0       0.0       0.0       20 9         390       112.4       4.00       0.0       0.0       0.0       0.0       30 9								
351       43.8       4.90       4.31       4.01       0.0       0.0       10 9         381       75.4       4.60       0.0       0.0       0.0       0.0       30 9         383       70.4       3.90       0.0       0.0       0.0       0.0       50 9         384       105.1       4.30       0.0       0.0       0.0       0.0       50 9         385       96.3       4.40       0.0       0.0       0.0       0.0       50 9         386       59.5       5.00       3.73       3.67       3.41       0.0       10 9         388       74.2       4.50       0.0       0.0       0.0       0.0       50 9         389       68.7       4.10       0.0       0.0       0.0       0.0       20 9         390       112.4       4.00       0.0       0.0       0.0       0.0       30 9								
381       75.4       4.60       0.0       0.0       0.0       0.0       30.9         383       70.4       3.90       0.0       0.0       0.0       0.0       0.0       50.9         384       105.1       4.30       0.0       0.0       0.0       0.0       50.9         385       96.3       4.40       0.0       0.0       0.0       0.0       50.9         386       59.5       5.00       3.73       3.67       3.41       0.0       10.9         388       74.2       4.50       0.0       0.0       0.0       0.0       50.9         389       68.7       4.10       0.0       0.0       0.0       0.0       20.9         390       112.4       4.00       0.0       0.0       0.0       0.0       30.9								
383       70.4       3.90       0.0       0.0       0.0       0.0       0.0       50.9         384       105.1       4.30       0.0       0.0       0.0       0.0       50.9         385       96.3       4.40       0.0       0.0       0.0       0.0       50.9         386       59.5       5.00       3.73       3.67       3.41       0.0       10.9         388       74.2       4.50       0.0       0.0       0.0       0.0       50.9         389       68.7       4.10       0.0       0.0       0.0       0.0       20.9         390       112.4       4.00       0.0       0.0       0.0       0.0       30.9								
384       105.1       4.30       0.0       0.0       0.0       0.0       50 9         385       96.3       4.40       0.0       0.0       0.0       0.0       50 9         386       59.5       5.00       3.73       3.67       3.41       0.0       10 9         388       74.2       4.50       0.0       0.0       0.0       0.0       50 9         389       68.7       4.10       0.0       0.0       0.0       0.0       20 9         390       112.4       4.00       0.0       0.0       0.0       0.0       30 9								
385       96.3       4.40       0.0       0.0       0.0       0.0       50.9         386       59.5       5.00       3.73       3.67       3.41       0.0       10.9         388       74.2       4.50       0.0       0.0       0.0       0.0       50.9         389       68.7       4.10       0.0       0.0       0.0       0.0       20.9         390       112.4       4.00       0.0       0.0       0.0       0.0       30.9								
386     59.5     5.00     3.73     3.67     3.41     0.0     10.9       388     74.2     4.50     0.0     0.0     0.0     0.0     50.9       389     68.7     4.10     0.0     0.0     0.0     0.0     20.9       390     112.4     4.00     0.0     0.0     0.0     0.0     30.9								
388     74.2     4.50     0.0     0.0     0.0     0.0     50 9       389     68.7     4.10     0.0     0.0     0.0     0.0     20 9       390     112.4     4.00     0.0     0.0     0.0     0.0     30 9								
389 68.7 4.10 0.0 0.0 0.0 0.0 20 9 390 112.4 4.00 0.0 0.0 0.0 30 9								
390 112.4 4.00 0.0 0.0 0.0 0.0 30 9								
	391	79.6	3.70	0.0				

EVENT NO.	DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SPC	MS T=40SEC	LQ/LR RATIO	COMMENT
392	113.0	3.60	0.0	0.0	0.0	0.0	50 9
393	64.2	4.30	0.0	0.0	0.0	0.0	51 9
394	64.8	3.70	0.0	0.0	0.0	0.0	30 9
395	117.9	4.10	0.0	0.0	0.0	0.0	50 9
396	63.8	4.30	0.0	0.0	0.0	0.0	50 9
397	102.0	3.80	0.0	0.0	0.0	0.0	50 9
398	84.1	*3.80	0.0	0.0	0.0	0.0	30 9
399	69.9	4.50	0.0	0.0	0.0	0.0	50 9
402	107.5	4.60	0.0	0.0	0.0	0.0	30 9
403	108.0	3.70	0.0	0.0	0.0	0.0	50 9
404	114.4	3.50	0.0	0.0	0.0	0.0	30 9
405	86.0	<b>*4.50</b>	0.0	0.0	0.0	0.0	50 9
407	108.9	3.80	0.0	0.0	0.0	0.0	20 9
408	106.1	3.40	0.0	0.0	0.0	0.0	20 9
409	85.2	<b>*3.70</b>	0.0	0.0	0.0	0.0	30 9
410	108.7	4.70	3.67	3.50	3.09	0.0	10 9
411	64.3	4.10	0.0	0.0	0.0	0.0	50 9
453	111.0	4. 0.0		0.0	0.0	0.0	20 9
							50 9
454	93.4	4.70	<b>.</b>	0.0	0.0	0.0	30 9
455 #70	112.5		0.0	0.0	0.0	0.0	
470	100.5	4.70	0.0	0.0	0.0	0.0	30 9
471	108.0	4.20	0.0	0.0	0.0	0.0	20 9
472	70.0	5.20	0.0	0.0	0.0	0.0	30 9
473	62.3	3.60	0.0	0.0	0.0	0.0	50 9
474	111.9	3.70	0.0	0.0	0.0	0.0	50 9
475	104.4	4.70	0.0	0.0	0.0	0.0	50 9 50 9
476	69.0	5.20	0.0	0.0	0.0	0.0	
477	112.1	3.50	0.0	0.0	0.0	0.0	20 9 20 9
478	59.6	4.00	0.0	0.0	0.0	0.0	
479	93.3	4.10	0.0	0.0	0.0	0.0	20 9 20 9
482	74.9	4.20	0.0	0.0	0.0	0.0	
483	116.3	3.70	0.0	0.0	0.0	0 . 0	30 9
484	84.1	4.40	0.0	0.0	0.0.	0.0	20 9
485	106.2	3.80	0.0	0.0	0.0	0.0	20 9
486	98.7	3.90	0.0	0.0	0.0	0.0	20 9
487	111.5	4.40	0.0	0.0	0.0	0.0	20 9
488	111.7	3.90	0.0	0.0	0.0	0.0	20 9
489	111.7	3.40	0.0	0.0	0.0	0.0	20 9
490	94.9	3.90	0.0	0.0	0.0	0.0	20 9
491	102.0	3.80	0.0	0.0	0.0	0.0	50 9
492	103.0	5.10	3.01	2.83	0.0	0.0	50 9
493	72.1	4.40	0.0	0.0	0.0	0.0	50 9
494	66.3	3.70	0.0	0.0	0.0	0.0	50 9
495	74.4	3.50	0.0	0.0	0.0	0.0	50 9
496	109.4	5.20	0.0	0.0	0.0	0.0	30 9
497	101.6	4.90	4.06	3.77	3.35	0.0	10 9
498	109.3	4.70	0.0	0.0	0.0	0.0	30 9
499	105.9	4.60	3.04	2.73	0.0	0.0	50 9
500	74.9	3.70	0.0	0.0	0.0	0.0	30 9

FVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SFC	MS	LO/LR	COMMENT
	(DEOM DIE)		1-20360	1-305FC	T=40SEC	RATIO	
501	62.6	4.20	0.0	0.0	0.0	0.0	20 9
502	112.8	3.90	3.08	2.67	0.0	0.0	50 9
503	66.7	4.20	0.0	0.0	0.0	0.0	50 9
504	99.9	3.90	0.0	0.0	0.0	0.0	30 9
505	64.1	5.30	3.31	3.04	2.56	2.87	10 9
506	62.1	3.30	0.0	0.0	0.0	0.0	20 9
507	95.1	3.40	0.0	0.0	0.0	0.0	20 9
508	76.1	4.10	0.0	0.0	0.0	0.0	20 9
509	64.1	4.50	0.0	0.0	0.0	0.0	50 9
510	106.0	4.00	0.0	0.0	0.0	0.0	20 9
511	93.8	3.70	0.0	0.0	0.0	0.0	20 9
512	90.9	4.00	0.0	0.0	0.0	0.0	20 9
513	75.5	5.00	0.0	0.0	0.0	0.0	20 9
514	64.0	4.20	0.0	0.0	0.0	0.0	50 9
515	65.0	4.30	0.0	0.0	0.0	0.0	50 9
516	107.0	3.60	0.0	0.0	0.0	0.0	50 9
517	114.9	3.90	0.0	0.0	0.0	0.0	50 9
518	107.0	4.30	0.0	0.0	0.0	0.0	50 9
538	112.9	3.80	0.0	0.0	0.0	0.0	20 9
539	68.6	4.80	3.18	3.06	2.77	0.0	10 9
540	92.4	4.40	0.0	0.0	0.0	0.0	50 9
541	68.6	5.10	3.81	3.75	3.28	0.0	10 9
542	104.0	4.00	0.0	0.0	0.0	0.0	50 <b>9</b>
543	107.9	4.90	2.99	2.69	2.67	0.0	50 9
544	110.1	3.50	0.0	0.0	0.0	0.0	30 9
545	92.9	3.60	0.0	0.0	0.0	0.0	20 9
546	61.9	4.80	0.0	0.0	0.0	0.0	20 9
547	105.8	4.60	0.0	0.0	0.0	0.0	20 9
548	111.0	3.60	0.0	0.0	0.0	0.0	50 9
550	109.0	4.10	0.0	0.0	0.0	0.0	20 9
551	101.7	3.70	0.0	0.0	0.0	0.0	50 9
552	106.1	3.70	0.0	0.0	0.0	0.0	30 9
553	109.0	3.80	0.0	0.0	0.0	0.0	30 9
554	101.3	4.50	0.0	0.0	0.0	0.0	50 9
555	96.2	3.40	0.0	0.0	0.0	0.0	35 9
556	<b>77.</b> 5	4.00	0.0	0.0	0.0	0.0	50 9
557	115.0	4.70	0.0	0.0	0.0	0.0	30 9
558	61.8	5.60	4.29	4.02	0.0	0.0	10 9
559	61.8	5.00	4.62	4.01	0.0	0.0	13 9
560	115.1	4.20	0.0	3.10	0.0	0.0	15 9
561	97.0	4.30	2.70	2.48	2.56	0.0	17 9
563	62.5	4.00	0.0	0.0	0.0	0.0	20 9
564	95.8	3.90	0.0	0.0	0.0	0.0	30 9
565	60.6	5.30	3.96	3.40	0.0	0.0	10 9
566	98.1	4.50	0.0	0.0	0.0	0.0	50 9
567	115.0	4.80	0.0	0.0	0.0	0.0	20 9
568	95.7	4.00	0.0	0.0	0.0	0.0	20 9
569	72.7	4.00	0.0	0.0	0.0	0.0	20 9
570	98.0	4.30	0.0	0.0	0.0	0.0	50 9

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
571	115.1	4.00	0.0	0.0	0.0	0.0	30 9
572	69.9	3.90	0.0	0.0	0.0	0.0	30 9
573	68.6	5.70	0.0	0.0	0.0	0.0	40 9
574	68.7	4.40	0.0	0.0	0.0	0.0	20 9
575	68.2	3.80	0.0	0.0	0.0	0.0	30 9
576	113.9	4.30	0.0	0.0	0.0	0.0	20 9
577	68.2	4.10		0.0	0.0	0.0	20 9
578	68.6	4.70		0.0		0.0	30 9
579	68.7	4.90	4.10	4.11		0.0	10 9
580	68.6	4.30	.0.0	0.0	0.0	0.0	30 9
581	69.4	3.80	0.0	0.0	0.0	0.0	50 9
592	97.5	4.00	0.0	0.0	0.0	0.0	50 9
593	60.3	3.90	0.0	0.0	0.0	0.0	50 9
696	106.2	4.40	0.0	0.0	0.0	0.0	30 9
697	86.2	4.40	4.76	4.30	0.0	0.0	10 9
698	77.5	4.80	0.0	3.62	3.25	0.0	10 9
699	95.0	6.20	3.89	3.33	0.0	0.86	10 9
700	105.9	4.30	0.0	0.0	0.0	0.0	30 9
701	111.0	4.00	0.0	0.0	0.0	0.0	30 9
702	110.0	5.50	5.33	5.14	4.41	0.0	10 9
703	109.0	3.80	0.0	0.0	0.0	0.0	30 9
705	108.1	4.20	0.0	0.0	0.0	0.0	30 9
706	101.4	3.70	0.0	0.0	0.0	0.0	23 9
707	97.0	4.30	0.0	0.0	0.0	0.0	20 9
708	116.4	*4.50	0.0	0.0	0.0	0.0	20 9
709	106.9	4.10	0.0	0.0	0.0	0.0	23 9
710	76.1	4.30	3.79	2.93	0.0	3.18	13 9
711	107.0	*5.30	0.0	0.0	0.0	0.0	13 9
712	108.1	4.30	0.0	0.0	0.0	0.0	30 9
713	64.6	4.50		0.0	0.0	0.0	20 9
714	96.6	4.60		0.0	0.0	0.0	20 9
715	72.5	3.70	0.0	0.0	0.0	0.0	20 9
716	105.6	5.50	4.20	4.34	3.84	2.44	10 9
717	92.0	4.20	0.0	0.0		0.0	23 9
718	113.1	4.70		3.65			13 9
719	94.4	3.60		0.0			20 9
720	69.2	3.60		0.0		0.0	30 9
721	81.8	3.80		0.0	0.0	0.0	32 9 20 9
722	104.0	3.80	0.0	0.0	0.0		30 9
723	62.6	4.80	0.0	0.0	0.0	0.0	23 9
724	74.6	3.70		0.0	0.0	0.0	20 9
725	127.0	3.90		0.0	0.0	0.0	30 9
726	106.2	4.10	0.0 0.0	0.0 0.0	0.0	0.0	20 9
727	113.2	3.90			0.0	0.0	20 9
728	100.4	4.50 3.90		0.0	0.0	0.0	30 9
72 <b>9</b> 730	108.1 96.2	3.80		0.0	0.0	0.0	30 9
730 731	106.4	3.90	0.0	0.0	0.0	0.0	23 9
732	117.3	4.40	0.0	0.0		0.0	30 9

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
733	96.2	3.70	0.0	0.0	0.0	0.0	23 9
734	121.2	4.30	0.0	0.0	0.0	0.0	20 9
735	73.7	4.00	0.0	0.0	0.0	0.0	20 9
736	75.5	3.70	0.0	0.0	0.0	0.0	20 9
737	64.7	4.60	3.50	3.45	0.0	0.91	10 9
738	75.4	3.90	0.0	0.0	0.0	0.0	30 9
741	91.6	*4.80	0.0	0.0	0.0	0.0	30 9
742	110.7	4.00	0.0	0.0	0.0	0.0	30 9
743	101.5	4.00	0.0	0.0	0.0	0.0	30 9
744	105.7	5.70	<b>5.0</b> 0	4.70	0.0	6.86	10 9
745	106.6	4.40	0.0	0.0	0.0	0.0	30 9
746	86.4	3.60	0.0	0.0	0.0	0.0	23 9
747	99.9	4.10	0.0	0.0	0.0	0.0	30 9
748	108.1	4.00	0.0	0.0	0.0	0.0	23 9
749	108.0	4.00	0.0	0.0	0.0	0.0	2.0 9
750	109.1	4.90	0.0	0.0	0.0	0.0	30 9
751	92.4	4.30	0.0	0.0	0.0	0.0	50 9
752	91.0	5.40	0.0	0.0	0.0	0.0	50 9
753 754	90.1	4.70	0.0	0.0	0.0	0.0	35 9
755	111.0	3.70	0.0	0.0	0.0	0.0	50 9
756	92.9 65.6	5.20	0.0	0.0	0.0	0.0	50 9
757	108.6	3.40	0.0	0.0	0.0	0.0	50 9
758	79.5	3.90 5.10	0.0	0.0	0.0	0.0	20 9
759	92.7	4.00	0.0	0.0	0.0	0.0	50, 9
760	113.9	5.60	0.0	0.0	0.0	0.0	50 9
761	65.8	5.20	0.0 3.72	0.0	0.0	0.0	23 9
762	84.7	4.90	4.48	3.69 3.61	0.0 0.0	0.0	10 9
763	91.7	3.90	0.0	0.0	0.0	12.81	10 9 23 9
764	63.9	4.70	0.0	0.0	0.0	0.0 0.0	50 9
766	62.6	3.60	0.0	0.0	0.0	0.0	50 9
767	99.6	4.40	0.0	0.0	0.0	0.0	40 9
771	83.7	*4.40	0.0	0.0	0.0	0.0	40 9
772	64.4	3.90	0.0	0.0	0.0	0.0	30 9
773	15.4	3.90	0.0	0.0	0.0	0.0	20 9
774	112.9	4.70	0.0	0.0	0.0	0.0	20 9
775	108.2	5.40	5.27	4.73	5.03	1.97	10 9
776	62.9	4.80	3.38	3.29	0.0	1.09	10 9
777	86.9	4.10	0.0	0.0	0.0	0.0	20 9
778	97.4	5.10	4.45	4.21	3.63	1.77	10 9
779	87.1	3.60	0.0	0.0	0.0	0.0	20 9
780	77.2	3.90	0.0	0.0	0.0	0.0	30 9
781	105.6	5.00	4.18	3.96	3.48	0.0	10 9
782	76.6	4.00	0.0	0.0	0.0	0.0	20 9
783	64.1	4.40	0.0	0.0	0.0	0.0	30 9
784	75.5	4.10	0.0	0.0	0.0	0.0	20 9
785	93.8	5.30	0.0	0.0	0.0	0.0	00 9
786	97.6	4.30	0.0	0.0	0.0	0.0	20 9
787	87.2	3.70	0.0	0.0	0.0	0.0	20 9

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=405EC	LQ/LR RATIO	COMMENT
788	110.0	3.90	0.0	0.0	0.0	0.0	20 9
789	87.0	4.20	0.0	0.0	0.0	0.0	30 9
790	87.2	4.70	0.0	0.0	0.0	0.0	00 9
791	92.5	3.70	0.0	0.0	0.0	0.0	30 9
792	105.2	4.50	0.0	0.0	0.0	0.0	30 9
793	107.9	4.10	0.0	0.0	0.0	0.0	20 9
734	105.9	4.00	0.0	0.0	0.0	0.0	30 9
795	67.7	3.80	0.0	0.0	0.0	0.0	00 9
796	59.4	3.50	0.0	0.0	0.0	0.0	00 9
797	95.2	5 <b>.7</b> 0	4.29	3.68	0.0	0.0	10 9
799	74.8	6.00	5.64	5.19	0.0	0.92	10 9
800	73.8	4.20	0.0	0.0	0.0	0.0	30 9
801	75.5	3.50	0.0	0.0	0.0	0.0	20 9
802	75.0	4.80	0.0	0.0	0.0	0.0	30 9
803	75.5	3.60	0.0	0.0	0.0	0.0	30 9
804	74.9	3.70	0.0	0.0	0.0	0.0	30 9
805	92.8	3.70	0.0	0.0	0.0	0.0	30 9 30 9
806	73.2	4.30	0.0	0.0	0.0 0.0	0.0 0.0	20 9
807	74.9 75.5	4.30 3.90	0.0 0.0	0.0	0.0	0.0	30 9
808 809	73.2	3.60	0.0	0.0	0.0	0.0	30 9
810	73.2	3.60	0.0	0.0	0.0	0.0	20 9
811	73.1	3.60	0.0	0.0	0.0	0.0	20 9
812	74.9	4.30	0.0	0.0	0.0	0.0	20 9
813	75.0	4.80	3.84	3.41	0.0	(r • 0	10 9
814	75.0	4.10	0.0	0.0	0.0	0.0	30 9
815	64.7	4.70	0.0	0.0	0.0	0.0	20 9
816	92.1	3.90	0.0	0.0	0.0	0.0	50 9
817	77.1	3.60	0.0	0.0	0.0	0.0	20 9
8 18	74.3	5.70	4.30	3.65	0.0	1.31	10 9
819	110.9	3.60	0.0	0.0	0.0	0.0	20 9
820	91.0	<b>*4.20</b>	0.0	0.0	0.0	0.0	30 9
821	<b>73.</b> 2	4.60	0.0	0.0	0.0	0.0	20 9
822	74.4	4.10	0.0	0.0	0.0	0.0	20 9
823	91.7	*4.30	3.94	3.42	0.0	4.85	10 9
824	76.1	3.40	0.0	0.0	0.0	0.0	20 9
825	75.0	4.70	3.88	3.65	0.0	0.50	10 9
826	97.6	4.70	0.0	0.0	0.0	0.0	20 9 10 9
827	59.4	4.40	4.05	3.82	0.0	0.0	10 9
828	75.0	5.70	5.77 0.0	5.25 0.0	0.0	0.0	30 9
829	75.0	4.80 4.30	0.0	0.0	0.0	0.0	23 9
830 831	73.8 74.4	3.80	0.0	0.0	0.0	0.0	20 9
832	75.0	4.70	0.0	0.0	0.0	0.0	20 9
833	75.0	4.10	0.0	0.0	0.0	0.0	20 9
834	74.9	4.80	0.0	0.0	0.0	0.0	23 9
835	76.1	3.70	0.0	0.0	0.0	0.0	20 9
836	75.0	4.60	0.0	0.0	0.0	0.0	20 9
837	75.0	4.90	3.74	3.04	0.0	0.0	10 9

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
838	106.9	3.40	0.0	0.0	0 0	0 0	
839	57.8	4.00	4.11	3.80	0.0	0.0	20 9
840	75.5	3.80	0.0	0.0	3.37	0.53	10 9
841	73.2	3.70	0.0	0.0	0.0	0.0	20 9
942	97.8	4.70	4.10	3.69	0.0	0.0	20 9
843	66.5	3.80	0.0	0.0	0.0	0.0	10 9
844	97.7	4.60	4.37	3.82	0.0	0.0	20 9
845	113.8	4.30	0.0	0.0	3.39	0.65	10 9
846	66.6	4.10	0.0	0.0	0.0	0.0	20 9
847	113.0	3.70	0.0	0.0	0.0	0.0	20 9
848	63.2	4.20	0.0	0.0		0.0	20 9
849	86.3	3.70	0.0	0.0	0.0	0.0	20 9
850	61.4	4.10	0.0	0.0	0.0	0.0	20 9
851	61.8	4.10	0.0	0.0	0.0	0.0	20 9
852	68.8	4.10	0.0	0.0		0.0	20 9
853	117.9	3.90	0.0	0.0	0.0 0.0	0.0	20 9
854	108.3	3.80	0.0	0.0	0.0	0.0	20 9
855	110.0	4.00	0.0	0.0	0.0	0.0	20 9
856	93.4	3.70	0.0	0.0	0.0	0.0	20 9
8 <b>57</b>	63.1	4.80	0.0	0.0	0.0	0.0	20 9
<b>អ</b> 5អ	74.2	4.70	0.0	0.0	0.0	0.0	20 9
859	65.1	5.70	0.0	5.07	4.61	0.0	20 9
860	63.6	3.50	0.0	3.63	0.0	0 54	10 9
862	113.7	4.60	0.0	0.0	0.0	0.0	16 9
863	93.5	3.60	0.0	0.0	0.0	0.0	20 9
864	73.2	4.00	0.0	0.0	0.0	0.0	30 9
865	95.0	4.57	0.0	0.0	0.0	0.0	30 9
866	90.0	3.50	0.0	0.0	0.0	0.0 0.0	30 9
867	68.2	4.10	3.39	2.93	0.0	0.0	30 9
868	61.9	4.30	0.0	0.0	0.0	0.0	10 9
869	59.5	4.30	0.0	0.0	0.0	0.0	30 9
870	114.2	4.10	0.0	0.0	0.0	0.0	20 9
871	75.5	1.80	0.0	0.0	0.0	0.0	20 9
872	108.9	3.80	0.0	0.0	0.0	0.0	20 9
<b>Я73</b>	110.1	4.50	0.0	0.0	0.0	0.0	20 9 20 9
874	92.8	4.40	0.0	0.0	0.0	0.0	20 9
875	110.2	4.90	0.0	0.0	0.0	0.0	30 9
878	63.8	3.50	0.0	0.0	0.0	0.0	20 9
879	60.7	3.60	0.0	0.0	0.0	0.0	20 9
088	91.7	4.30	0.0	0.0	0.0	0.0	20 9
881	112.5	5.20	0.0	0.0	0.0	0.0	50 9
882	67.3	u. 10	0.0	0.0	0.0	0.0	20 9
883	109.2	3.70	0.0	0.0	0.0	0.0	30 9
884	105.9	5.50	4.81	4.36	4.16	0.0	10 9
885	105.9	4.80	0.0	0.0	0.0	0.0	20 9
886	111.0	3.80	0.0	0.0	0.0	0.0	20 9
887	106.1	4.70	0.0	0.0	0.0	0.0	30 9
888	66.7	3.50	0.0	0.0	0.0	0.0	20 9
ява	62.5	3.40	0.0	0.0	0.0	0.0	50 9

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
890	94.4	5.30	5.15	4.48	0.0	3.44	10 9
891	95.1	4.00	0.0	0.0	0.0	0.0	20 9
892	94.6	4.30	0.0	0.0	0.0	0.0	20 9
893	68.9	4.70	3.35	3.53	0.0	0.82	10 9
894	65.7	3.90	0.0	0.0	0.0	0.02	20 9
895	105.6	4.90	0.0	0.0	0.0	0.0	30 9
896	112.3	4.80	0.0	0.0	0.0	0.0	30 9
897	92.6	5.00	4.03	0.0	3.99	0.0	10 9
898	110.6	4.40	0.0	0.0	0.0	0.0	20 9
899	61.3	4.30	0.0	0.0	0.0	0.0	20 9
900	108.0	3.90	0.0	0.0	0.0	0.0	30 9
901	63.1	3.80	0.0	0.0	0.0	0.0	20 9
902	107.0	<b>3.7</b> 0	0.0	0.0	0.0	0.0	20 9
903	112.0	3.90	0.0	0.0	0.0	0.0	20 9
904	63.8	3.90	0.0	0.0	0.0	0.0	20 9
905	111.1	3.80	0.0	0.0	0.0	0.0	20 9
906	111.7	3.60	0.0	0.0	0.0	0.0	20 9
907	111.7	4.20	0.0	0.0	0.0	0.0	20 9
908	102.9	5.10	3.81	3.74	0.0	0.0	10 9
909	102.9	4.70	0.0	0.0	0.0	0.0	20 9
910	109.0	3.80	0.0	0.0	0.0	0.0	20 9
911	111.8	5.10	4.50	4.13	4.03	2.49	10 9
912	95.4	4.50	0.0	0.0	0.0	0.0	20 9
913 914	112.0	3.70	0.0	0.0	0.0	0.0	20 9
914	106.0	4.60	0.0	0.0	0.0	0.0	20 9
916	112.2 112.2	4.80	0.0	0.0	0.0	0.0	20 9
917	106.8	4.50	0.0	3.55	3.19	2.12	10 9
918	112.2	3.80	0.0	0.0	0.0	0.0	20 9
919	110.0	5.00 3.60	4.19	3.93	3.71	4.60	10 9
920	97.5	3.70	0.0	0.0	0.0	0.0	20 9
921	113.8	3.90	0.0 0.0	0.0	0.0	0.0	20 9
922	113.8	4.00	0.0	0.0	0.0	0.0	30 9
923	75.0	3.90	0.0	0.0	0.0	0.0	20 9
924	104.0	4.30	0.0	0.0 0.0	0.0	0.0	20 9
925	69.4	4.00	0.0	0.0	0.0	0.0	20 9
926	103.0	4.90	0.0	0.0	0.0	0.0	20 9
927	97.3	4.60	0.0	0.0	0.0	0.0	50 9
928	74.4	3.40	0.0	0.0	0.0	0.0	50 9 50 9
949	95.2	5.60	0.0	0.0	0.0	0.0	20 9
950	108.9	4.90	4.12	3.82	3.64	1.06	10 9
951	75.5	3.70	0.0	0.0	0.0	0.0	20 9
952	108.9	3.70	0.0	0.0	0.0	0.0	20 9
953	114.8	3.60	0.0	0.0	0.0	0.0	20 9
954	104.3	4.90	3.81	3.94	3.59	1.53	10 9
955	111.7	4.20	0.0	0.0	0.0	0.0	20 9
956	96.5	4.50	4.20	4.01	0.0	2.48	10 9
957	96.5	4.50	0.0	0.0	0.0	0.0	30 9
958	110.0	3.90	0.0	0.0	0.0	0.0	20 9

EVENT NO.	DISTANCE (DEGREPS)	MB	MS T=20SEC	MS T≈30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
959	59.2	4.60	0 0	0 0	0 0		
960	76.1	3.70	0.0 0.0	0.0	0.0	0.0	20 9
961	102.8	4.30	0.0	0.0	0.0	0.0	20 9
962	76.1	4.10	0.0	0.0	0.0	0.0	20 9
963	112.2	4.00	0.0	0.0	0.0	0.0	30 9
964	72.1	3.80	0.0	0.0	0.0	0.0	20 9
965	106.5	4.80	3.48	3.50	0.0	0.0	20 9
973	62.5	4.20	0.0	0.0	3.16	2.62	10 9
974	68.8	5.00	3.21	3.67	0.0 3.47	0.0	20 9
975	76.1	3.60	0.0	0.0	0.0	0.0	10 9
976	65.6	3.80	0.0	0.0	0.0	0.0	20 9
977	110.8	3.50	0.0	0.0	0.0	0.0	20 9
978	110.1	4.20	3.50	3.30	0.0	0.0	30 9
979	109.1	3.80	0.0	0.0	0.0	0.0	60 9
980	90.3	*4.40	0.0	0.0	0.0	0.0	30 9
981	58.8	4.00	0.0	0.0	0.0	0.0	30 9
982	77.9	3.40	0.0	0.0	0.0	0.0 0.0	20 9
983	95.9	4.20	3.90	3.85	3.67	1.28	20 9
984	67.7	6.30	0.0	0.0	0.0	0.0	10 9
985	67.4	4.90	0.0	0.0	0.0	0.0	30 9 50 9
986	67.8	5.30	0.0	0.0	0.0	0.0	50 9
987	67.8	5.50	0.0	0.0	0.0	0.0	50 9
988	68.8	4.20	0.0	0.0	0.0	0.0	50 9
999	66.2	3.80	0.0	0.0	0.0	0.0	50 9
990	1 10 . 8	4.20	0.0	0.0	0.0	0.0	50 9
991	67.7	4.00	0.0	0.0	0.0	0.0	50 9
992	66.7	.4.30	0.0	0.0	0.0	0.0	50 9
993	66.7	4.10	0.0	0.0	0.0	0.0	50 9
994	68.3	3.60	0.0	0.0	0.0	0.0	50 9
995	66.7	4.00	0.0	0.0	0.0	0.0	50 9
996	67.7	3.50	0.0	0.0	0.0	0.0	50 9
997	67.B	4.90	0.0	1 O	0.0	0.0	50 9
0 <b>0 B</b>	67.8	4.20	0.0	0.0	0.0	0.0	50 9
999	67.7	3.70	0.0	0.0	0.0	0.0	50 9
1000	67.8	5.20	0.0	0.0	0.0	0.0	50 9
1001	67.2	4.10	0.0	0.0	0.0	0.0	50 9
1002	67.2	3.90	0.0	0.0	0.0	0.0	50 9
1003	68.4	3.90	0.0	0.0	0.0	0.0	50 9
1004	67.3	4.50	0.0	0.0	0.0	0.0	50 9
1005	67.3	3.90	0.0	0.0	0.0	0.0	50 9
1006	67.2	3.90	0.0	0.0	0.0	0.0	50 9
1007	66.7	4.60	0.0	0.0	0.0	0.0	50 9
1008	67.7	5.50	4.15	3.88	0.0	0.58	10 9
1009	67.2	4.20	3.62	0.0	0.0	0.0	20 9
10 10	67.7	4.00	3.67	0.0	0.0	0.0	20 9
1011	66.7	3.90	3.80	0.0	0.0	0.0	20 9
1012	67.7	4.50	3.68	0.0	0.0	0.0	20 9
1013	66.7	4,40	3.66	0.0	0.0	0.0	20 9
1014	66.3	3.90	3.46	0.0	0.0	0.0	20 9

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30sec	MS T=40SEC	LQ/LR RATIO	COMMENT
1015	68.9	3.40	3.37	0.0	0.0	0.0	20 9
1016	67.3	4.60	3.37	0.0	0.0	0.0	20 9
1017	100.1	4.20	3.70	0.0	0.0	0.0	20 9
1018	69.4	4.70	3.39	0.0	0.0	0.0	20 9
1019	67.3	4.00	3.77	0.0	0.0	0.0	20 9
1020	66.7	3.80	3.34	0.0	0.0	0.0	20 9
1021	97.5	3.90	3.74	0.0	0.0	0.0	20 9
1022	67.3	4.10	3.63	0.0	0.0	0.0	20 9
1023	66.7	3.70	0.0	0.0	0.0	0.0	30 9
1024	67.2	4.10	3.40	0.0	0.0	0.0	20 9
1025	66.7	4.20	3.51	3.37	0.0	0.0	10 9
1026	106.1	3.70	3.32	0.0	0.0	0.0	20 9
1027	66.7	3.50	3.33	0.0	0.0	0.0	20 9
1028	94.5	3.60	3.58	0.0	0.0	0.0	20 9
1029	68.0	5.50	4.55	4.70	4.55	0.0	10 9
1030 1031	112.2 73.2	4.60 3.50	4.08	0.0 0.0	0.0	0.0	20 9 20 9
1037	66.7	4.60	3.59 3.37	0.0	0.0	0.0	20 9
1032	104.7	4.60	3.77	0.0	0.0	0.0	20 9
1034	111.1	3.70	3.76	0.0	0.0	0.0	20 9
1035	67.4	4.60	3.09	3.16	2.98	0.0	10 9
1036	67.3	4.40	3.24	0.0	0.0	0.0	20 9
1037	66.2	3.70	3.25	0.0	0.0	0.0	20 9
1038	61.4	3.90	3.27	0.0	0.0	0.0	20 9
1039	63.2	6.10	5.62	5.43	5.07	1.04	10 9
1040	69.9	4.20	2.83	0.0	0.0	0.0	20 9
1041	66.7	4.00	2.73	0.0	0.0	0.0	20 9
1042	91.4	3.70	0.0	0.0	0.0	0.0	50 9
1043	66.7	3.90	3.49	0.0	0.0	0.0	20 9
1044	105.0	3.40	3.50	0.0	0.0	0.0	20 9
1045	61.9	3.70	0.0	0.0	0.0	0.0	30 9
1046	67.2	3.60	3.46	0.0	0.0	0.0	20 9
1047	109.1	3.60	3.67	0.0	0.0	0.0	20 9
1048	93.1	4.00	3.55	0.0	0.0	0.0	20 9
1049	110.0	3.60	0.0	0.0	0.0	0.0	50 9
1050 1051	68.0 108.9	5.00 3.60	0.0 0.0	0.0 0.0	0.0	0.0	50 9
1052	89.0	*3.60	3.43	0.0	0.0	0.0	50 9 20 9
1053	108.6	5.00	3.40	0.0	0.0	0.0	20 9
1054	76.1	4.10	0.0	0.0	0.0	0.0	50 9
1055	110.4	3.60	3.93	0.0	0.0	0.0	20 9
1056	67.7	3.50	3.79	0.0	0.0	0.0	20 9
1057	62.7	3.70	3.80	0.0	0.0	0.0	20 9
1058	67.7	3.50	0.0	0.0	0.0	0.0	30 9
1059	76.1	3.90	0.0	0.0	0.0	0.0	30 9
1060	66.7	4.20	0.0	0.0	0.0	0.0	30 9
1061	66.7	4.50	3.76	0.0	0.0	0.0	20 9
1062	66.2	3.80	3.73	0.0	0.0	0.0	20 9
1063	110.9	4.00	3.93	0.0	0.0	0.0	20 9

					200		
EVENT	DISTANCE	MB	MS	MS	MS		
NO.	(DEGREES)		T=205EC	T=30SEC	T=40SEC	LQ/LR RATIO	COMMENT
1064	94.4	3.80	4 00				
1065	67.8	4.60	4.82	0.0	0.0	0.0	20 9
1066	66.2	4.00	3.93	3.76	0.0	0.57	10 9
1067	109.0	3.50	3.71	0.0	0.0	0.0	20 9
1068	69.4	4.20	3.76	0.0	0.0	0.0	20 9
1069	117.6	3.80	0.0	0.0	0.0	0.0	30 9
1070	68.3	4.40	3.90	0.0	0.0	0.0	20 9
1071	67.6	4.70	3.46	0.0	0.0	0.0	20 9
1072	91.8	3.10	3.86	0.0	0.0	0.0	20 9
1073	95.6	3.70	0.0	0.0	0.0	0.0	30 9
1074	69.4		3.95	0.0	0.0	0.0	20 9
1075	68.8	4.40	3.59	0.0	0.0	0.0	20 9
1076	111.7	3.90	3.62	0.0	0.0	0.0	20 9
1077	66.7	3.50	0.0	0.0	0.0	0.0	30 9
1078	76.7	4. 10	3.46	0.0	0.0	0.0	20 9
1079	117.3	4.10	0.0	0.0	0.0	0.0	30 9
1080	108.7	3.60	0.0	0.0	0.0	0.0	
1081	97.0	4.80	3.89	0.0	0.0	0.0	30 9
1082	76.5	4.40	3.80	0.0	0.0	0.0	20 9
1083	67.9	4.30	3.68	0.0	0.0	0.0	20 9
1084	104.4	5.70	5.07	5.12	4.87	0.17	20 9
1085	67.3	4.50	4.12	0.0	0.0	0.0	10 9
1086	94.3	6.10	5.69	5.82	5.65	0.27	20 9
1087	96.9	4.70	4.89	0.0	0.0	0.0	10 9
1088	67.6	4.00	3.65	0.0	0.0	0.0	20 9 20 9
1089	73.3	3.90	3.60	0.0	0.0	0.0	20 9
1090	65.2	3.70	3.94	0.0	0.0	0.0	20 9
1091	114.4	4.00	0.0	0.0	0.0	0.0	
1092	107.0	3.70	3.85	0.0	0.0	0.0	30 9 20 9
1093	71.8	4.20	3.87	0.0	0.0	0.0	
1094	67.2	4.30	3.67	0.0	0.0	0.0	20 9
1095	119.5	3.90	0.0	0.0	0.0	0.0	20 9
1096	64.3	4.10	0.0	0.0	0.0	0.0	30 9
1097	110.7	3.50	3.30	0.0	0.0	0.0	30 9
1098	95.2	3.60	3.66	0.0	0.0	0.0	20 9
1099	60.9	3.80	3.45	0.0	0.0	0.0	20 9
1100	115.4	3.60	3.44	0.0	0.0	0.0	20 9
1101	62.3	*4.40	3.75	0.0	0.0	0.0	20 9
1102	66.7	3.70	0.0	0.0	0.0	0.0	20 9
1103	109.5	3.70	3.56	0.0	0.0	0.0	30 9
1104	69.4	3.80	0.0	0.0	0.0	0.0	20 9
1105	111.7	4.50	3.49	0.0	0.0	0.0	30 9
1106	67.3	3.60	0.0	0.0	0.0	0.0	20 9
1107	97.5	5.20	3.58	3.39	3.34	0.0	50 9 10 9
1108	47.9	4.30	0.0	0.0	0.0	0.0	50 9
1109	96.2	4.20	0.0	0.0	0.0	0.0	50 9
1110	62.3	3.90	0.0	0.0	0.0	0.0	
1111	110.4	3.50	0.0	0.0	0.0	0.0	50 9 50 9
1112	115.7	4.00	0.0	0.0	0.0	0.0	
	117.7	5.20	4.10	3.96	3.57	1.84	50 c
							10 9

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1113	109.8	4.00	0.0	0.0	0.0	0 0	20.0
1114	64.7	4.20	3.72	0.0	0.0	0.0	30 9
1115	76.1	4.30	0.0	0.0	0.0	0.0	20 9
1217	77.3	3.80	3.02	0.0	0.0	0.0	50 9
1218	66.7	4.20	0.0	0.0	0.0	0.0	20 9
1219	109.1	3.70	3.04	0.0	0.0	0.0	30 9
1220	111.1	3.90	3.05	0.0	0.0	0.0	20 9
1221	116.1	3.80	3.36	0.0	0.0	0.0	20 9
1222	75.5	3.70	3.40	0.0	0.0	0.0 0.0	20 9
1223	63.8	5.10	4.23	4.07	0.0	0.0	20 9
1224	109.1	3.80	0.0	0.0	0.0	0.0	10 9
1225	110.7	3.60	0.0	0.0	0.0	0.0	30 9
1226	63.1	3.70	2.96	0.0	0.0	0.0	50 9
1227	103.2	4.70	3.43	0.0	0.0	0.0	20 9
1228	110.0	3.70	0.0	0.0	0.0	0.0	20 9
1229	66.7	4.10	3.11	0.0	0.0	0.0	30 9
1230	75.5	3.50	3.40	0.0	0.0	0.0	20 9
1231	111.6	5.10	0.0	0.0	0.0	0.0	20 9
1232	67.1	5.60	0.0	6.17	5.80	0.04	80 9
1233	77.3	3.20	3.11	0.0	0.0	0.04	10 9
1234	58.2	3.40	0.0	0.0	0.0	0.0	20 9
1235	77.3	3.60	3.45	0.0	0.0	0.0	20 9
1236	95.0	5.40	0.0	0.0	0.0	0.0	20 9
1237	76.7	4.20	3.32	0.0	0.0	0.0	50 9
1238	105.6	3.40	0.0	0.0	0.0	0.0	20 9
1239	114.1	4.40	3.64	0.0	0.0	0.0	30 9
1240	110.0	4.00	3.16	0.0	0.0	0.0	20 9
1241	109.0	3.40	3.25	0.0	0.0	0.0	20 9
1242	75.0	4.00	3.10	0.0	0.0	0.0	20 9
1243	104.1	4.20	0.0	0.0	0.0	0.0	20 9 30 9
1244	74.4	3.50	3.18	0.0	0.0	0.0	
1245	62.5	3.70	0.0	0.0	0.0	0.0	20 9 30 9
1246	114.4	3.60	3.58	0.0	0.0	0.0	20 9
1248	66.7	3.90	0.0	0.0	0.0	0.0	30 9
1249	74.4	4.00	3.58	0.0	0.0	0.0	20 9
1250	69.4	4.10	3.19	0.0	0.0	0.0	20 9
1251	64.3	3.90	0.0	0.0	0.0	0.0	50 9
1252	67.2	3.40	0.0	0.0	0.0	0.0	30 9
1253	76.1	3.80	3.79	0.0	0.0	0.0	20 9
1254	115.9	4.60	0.0	0.0	0.0	0.0	50 9
1255	63.0	3.60	3.32	0.0	0.0	0.0	20 9
1256	61.9	3.30	3.31	0.0	0.0	0.0	20 9
1258	77.9	3.90	0.0	0.0	0.0	0.0	50 9
1259	69.3	4.00	0.0	0.0	0.0	0.0	30 9
1260	62.3	4.80	0.0	0.0	0.0	0.0	50 9
1261	62.1	3.50	3.20	0.0	0.0	0.0	20 9
1262	63.0	3.70	3.15	0.0	0.0	0.0	20 9
1266	95.2	5.40	0.0	0.0	0.0	0.0	20 9
1267	94.9	6.30	0.0	3.51	0.0	0.0	10 9

FVENT NO.	DISTANCE (DEGREES)	MP	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/IR RATIO	COMMENT
1268 1269 1270 1271 1272 1273 1280	102.2 94.4 71.0 99.4 73.3 91.9	5.30 5.30 6.80 5.20 5.00 5.00	0.0 0.0 5.44 0.0 3.63 0.0	0.0 0.0 4.46 2.24 3.14 0.0	0.0 0.0 0.0 0.0 3.13 0.0	0.0 0.0 0.43 0.0 0.0	20 9 20 9 10 9 10 9 10 9 50 9

APPENDIX II-L

BASIC DATA FOR

LA PAZ, BOLIVIA (ZLP)

LA PAZ, BOLIVIA

EVENT	DISTANCE	MB	MS	MS	**		
NO.	(DEGREFS)		T=20SEC	T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
739	134 0					MALIO	
742	134.0	4.00	0.0	0.0	0.0	0.0	2010
743	123.1 144.4	4.00	0.0	0.0	0.0	0.0	3010
744		4.00	0.0	0.0	0.0	0.0	30 10
745	168.3	5.70	0.0	4.94	4.53	0.0	1010
746	189.2	4.40	0.0	0.0	0.0	0.0	3010
747	125.0	3.60	0.0	0.0	0.0	0.0	2010
748	106.0	4.10	0.0	0.0	0.0	0.0	3010
749	140.1 142.3	4.00	0.0	0.0	0.0	0.0	5010
750	143.8	4.00	0.0	0.0	0.0	0.0	2010
751	100.6	4.90	0.0	0.0	0.0	0.0	3010
752	100.3	4.30	0.0	3.41	2.07	0.0	1310
753	120.6	5.40	0.0	0.0	0.0	0.0	3010
755	128.5	4.70	0.0	0.0	0.0	0.0	5010
763	126.9	5.20	0.0	0.0	0.0	0.0	50 <b>1</b> 0
764	126.9	3.90 4.70	0.0	0.0	0.0	0.0	2010
765	104.0		0.0	3.67	0.0	0.59	1610
767	102.5	4.80 4.40	3.66	3.58	0.0	0.0	1310
768	139.7	3.60	0.0	0.0	0.0	0.0	2010
769	139.7	4.10	0.0	0.0	0.0	0.0	2310
770	120.2	3.60	0.0	0.0	0.0	0.0	2310
771	95.2	*4.40	0.0	0.0	0.0	0.0	2310
772	127.4	3.90	0.0	0.0	0.0	0.0	2010
773	95.0	3.90	0.0	0.0	0.0	0.0	5010
774	124.0	4.70	0.0	0.0	0.0	0.0	5010
775	128.6	5.40	0.0 5.39	0.0	0.0	0.0	5010
776	125.9	4.80	0.0	4.89	5.21	0.80	1010
777	148.8	4.10	0.0	0.0	0.0	0.0	2010
778	103.6	5.10	0.0	0.0	0.0	0.0	2010
779	148.9	3.60	0.0	4.16	0.0	1.58	1010
780	140.2	3.90	0.0	0.0	0.0	0.0	2010
781	140.8	5.00	0.0	0.0	0.0	0.0	5010
782	139.6	4.00	0.0	0.0	0.0	0.0	5010
783	127.1	4.40	0.0	0.0 0.0	0.0	0.0	5010
784	138.5	4.10	0.0	0.0	0.0	0.0	50 10
785	156.5	5.30	0.0	0.0	0.0	0.0	5010
786	103.7	4.30	0.0	0.0	0.0	0.0	0010
787	149.0	3.70	0.0	0.0	0.0 0.0	0.0	2010
788	140.0	3.90	0.0	0.0	0.0	0.0	20 10
789	148.9	4.20	0.0	0.0	0.0	0.0	2010
790	149.0	4.70	0.0	0.0	0.0	0.0	3010
791	153.8	3.70	0.0	0.0		0.0	0010
792	82.9	4.50	0.0	0.0	0.0 0.0	0.0	3010
793	137.1	4.10	0.0	0.0	0.0	0.0	3010
794	168.6	4.00	0.0	0.0	0.0	0.0	2010
795	130.7	3.80	0.0	0.0	0.0	0.0	30 10
796	122.4	3.50	0.0	0.0	0.0	0.0 0.0	0010
797	137.0	5.70	4.10	3.65	0.0	0.0	0010
799	137.7	6.00	5.83	5.63	5.24	0.0	1010
				7443	4	U • 7 1	1010

LA PAZ, BOLIVIA

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
800 .	136.6	4.20	0.0	0.0	0.0	0.0	3010
801	138.3	3.50	0.0	0.0	0.0	0.0	2010
802	137.8	4.80	4.79	4.11	3.97	0.51	1010
803	138.5	3.60	0.0	0.0	0.0	0.0	3010
804	137.7	3.70	0.0	0.0	0.0	0.0	3010
805	100.2	3.70	0.0	0.0	0.0	0.0	3010
806	136.1	4.30	0.0	0.0	0.0	0.0	3010
807	137.8	4.30	0.0	0.0	0.0	0.0	2010
808	138.5	3.90	0.0	0.0	0.0	0.0	3010
809	136.1	3.60	0.0	0.0	0.0	0.0	3010
810	136.1	3.60	0.0	0.0	0.0	0.0	30 10
811	135.8	3.60	0.0	0.0	0.0	0.0	2010
812	137.8	4.30	0.0	0.0	0.0	0.0	3010
813	137.8	4.80	0.0	0.0	0.0	0.0	5010
814	137.8	4.10	0.0	0.0	0.0	0.0	30 10
815	127.7	4.70	0.0	0.0	0.0	0.0	30 10
816	100.3	3.90	0.0	0.0	0.0	0.0	2010
817	140.1	3.60	0.0	0.0	0.0	0.0	2010
818 819	137.0 1 <b>37.</b> 9	5.70	0.0	0.0	0.0	0.0	2610
820	102.4	3.60 *4.20	0.0	0.0	0.0	0.0	20 10
821	136.1	4.60	0.0 0.0	0.0	0.0	0.0	2010
822	137.2	4.10	0.0	0.0	0.0	0.0	2010
823	98.8	*4.30	0.0	0.0	0.0 0.0	0.0	2010
824	139.0	3.40	0.0	0.0	0.0	0.0	5010 2010
825	137.8	4.70	4.12	3.91	3.34	0.68	1010
826	103.7	4.70	0.0	0.0	0.0	0.0	20 10
827	110.4	4.40	0.0	0.0	0.0	0.0	5010
828	137.9	5.70	5.77	5.64	5.01	0.46	10 10
829	137.8	4.80	0.0	0.0	0.0	0.0	3010
830	136.7	4.30	0.0	0.0	0.0	0.0	23 10
831	137.2	3.80	0.0	0.0	0.0	0.0	3010
832	137.8	4.70	0.0	0.0	0.0	0.0	3010
833	137.8	4.10	0.0	0.0	ο.σ	0.0	2310
834	137.8	4.80	0.0	0.0	0.0	0.0	2310
835	139.0	3.70	0.0	0.0	0.0	0.0	2010
836	137.8	4.60	0.0	0.0	0.0	0.0	2010
837	137.8	4.90	4.05	3.42	0.0	0.0	10 10
838	136.8	3.40	0.0	0.0	0.0	0.0	2010
839 840	109.4	4.00	3.74	3.59	3.26	1.60	10 10
841	138.2 136.1	3.80	0.0	0.0	0.0	0.0	3010
842	102.7	3.70 4.70	0.0	0.0	0.0	0.0	30 10
843	129.4	3.80	3.83 0.0	3.58 0.0	3.29	0.0	1010
844	104.2	4.60	0.0	0.0	0.0	0.0	20 10
845	136.8	4.30	0.0	0.0	0.0 0.0	0.0	2010
846	129.6	4.10	0.0	0.0	0.0	0.0	2010
847	140.8	3.70	0.0	0.0	0.0	0.0	2010 2010
848	126.2	4.20	0.0	0.0	0.0	0.0	2010
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LA PAZ, BOLIVIA

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
849	96.0	3.70	0.0	0.0	0.0	0.0	2010
850	124.4	4.10	0.0	0.0	0.0	0.0	2010
851	124.8	4.10	0.0	0.0	0.0	0.0	
852	131.7	4.10	0.0	0.0	0.0	0.0	2010
853	161.7	3.90	0.0	0.0	0.0	0.0	2010 2010
854	149.2	3.80	0.0	0.0	0.0	0.0	2010
855	140.0	4.00	0.0	0.0	0.0	0.0	2010
856	104.8	3.70	0.0	0.0	0.0	0.0	5010
896	137.6	4.80	0.0	0.0	0.0	0.0	3010
897	99.6	5.00	3.96	0.0	3.38	0.0	1010
898	123.4	4.40	0.0	0.0	0.0	0.0	2010
899	124.3	4.30	0.0	0.0	0.0	0.0	2010
900	137.8	3.90	0.0	0.0	0.0	0.0	5010
901	126.1	3.80	0.0	0.0	0.0	0.0	5010
902	137.5	3.70	0.0	0.0	0.0	0.0	5010
903	124.0	3.90	0.0	0.0	0.0	0.0	2010
904	126.8	3.90	0.0	0.0	0.0	0.0	5010
905	141.8	3.80	0.0	0.0	0.0	0.0	2010
906	123.1	3.60	0.0	0.0	0.0	0.0	50 10
910	140.7	3.80	0.0	0.0	0.0	0.0	5010
911	143.4	5.10	0.0	0.0	0.0	0.0	2010
912	100.0	4.50	0.0	0.0	0.0	0.0	2010
913	143.7	3.70	0.0	0.0	0.0	0.0	2010
914	158.6	4.60	0.0	0.0	0.0	0.0	5010
915	137.6	4.80	0.0	0.0	0.0	0.0	2010
9.16	137.6	4.50	0.0	0.0	0.0	0.0	2010
917	128.1	3.80	0.0	0.0	0.0	0.0	2010
918	137.6	5.00	4.11	3.84	3.62	0.77	1010
919	139.2	3.60	0.0	0.0	0.0	0.0	2010
920	148.5	3.70	0.0	0.0	0.0	0.0	5010
921	136.8	3.90	0.0	0.0	0.0	0.0	3010
922	136.8	4.00	0.0	0.0	0.0	0.0	5010
923	137.8	3.90	0.0	0.0	0.0	0.0	2010
924	137.2	4.30	0.0	0.0	0.0	0.0	5010
925	132.3	4.00	· 0.0	0.0	0.0	0.0	20 10
9 26	150.0	4.90	0.0	0.0	0.0	0.0	2010
927	101.8	4.60	0.0	0.0	0.0	0.0	2010
928	137.2	3.40	0.0	0.0	0.0	0.0	5010
929	144.6	5.10	3.93	0.0	3.69	0.0	1010
930	145.7	4.50	0.0	0.0	0.0	0.0	2010
931	144.0	3.70	0.0	0.0	0.0	0.0	5010
932	126.2	5.30	0.0	0.0	0.0	0.0	5010
949	137.1	5.60	0.0	0.0	0.0	0.0	2010
950	161.4	4.90	3.87	3.57	0.0	0.0	1010
951	138.5	3.70	0.0	0.0	0.0	0.0	5010
952	158.2	3.70	0.0	0.0	0.0	0.0	20 10
953	161.2	3.60	0.0	0.0	0.0	0.0	2010
954 955	139.4	4.90	0.0	0.0	0.0	0.0	3010
7 17)	153.4	4.20	0.0	0.0	0.0	0.0	3010

LA PAZ, BOLTVIA

EVENT NO.	DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SEC	MS T=40SFC	LQ/LR RATIO	COMMENT
956	109.6	4.50	0.0	4.08	3.59	0.0	1010
957	100.8	4.50	0.0	0.0	0.0	0.0	
958	140.0	3.90	0.0	0.0	0.0	0.0	30 10
959	122.2	4.60	0.0	0.0	0.0	0.0	5010
960	139.1	3.70	0.0	0.0	0.0	0.0	5010
961	155.0	4.30	0.0	0.0	0.0	0.0	2010
962	138.8	4.10	0.0	0.0	0.0	0.0	2010
963	128.3	4.00	0.0	0.0	0.0	0.0	5010
964	134.9	3.80	0.0	0.0	0.0	0.0	5010
965	149.2	4.80	0.0	0.0	0.0	0.0	5010
966	124.5	5.20	4.31	4.09	0.0	0.0	2010
967	123.7	3.80	0.0	0.0	0.0	0.0	1010
968	101.5	4.10	0.0	0.0	0.0	0.0	5010
969	138.4	4.30	0.0	0.0	0.0	0.0	5010
970	124.4	3.50	0.0	0.0	0.0	0.0	2010
971	99.3	3.50	0.0	0.0	0.0	0.0	2010
972	106.0	4.10	0.0	0.0	0.0	0.0	20 10 50 10
1006	130.1	3.90	0.0	0.0	0.0	0.0	5010
1007	129.7	4.60	0.0	0.0	0.0	0.0	5010
1008	130.7	5.50	3.41	0.0	0.0	0.0	1010
1009	130.1	4.20	0.0	0.0	0.0	0.0	50 10
1010	130.7	4.00	0.0	0.0	0.0	0.0	5010
1011	129.7	3.90	0.0	0.0	0.0	0.0	5010
1012	130.7	4.50	0.0	0.0	0.0	0.0	5010
1013	129.7	4.40	0.0	0.0	0.0	0.0	50 10
1014	129.3	3.90	0.0	0.0	0.0	0.0	50 10
1015	131.9	3.40	0.0	0.0	0.0	0.0	5010
1016	130.3	4.60	O.O	0.0	0.0	0.0	5010
1017	151.5	4.20	0.0	0.0	0.0	0.0	5010
10 18	132.3	4.70	0.0	0.0	0.0	0.0	5010
1019	130.3	4.00	0.0	0.0	0.0	0.0	5010
1020	129.7	3.80	0.0	0.0	0.0	0.0	5010
1021	101.7	3.90	0.0	0.0	0.0	0.0	5010
1022	130.3	4.10	0.0	0.0	0.0	0.0	5010
1023 1024	129.7	3.70	0.0	0.0	0.0	0.0	5010
1024	130.1	4.10	0.0	0.0	0.0	0.0	5010
1025	129.7	4.20	0.0	0.0	0.0	0.0	5010
1025	139.4	3.70	0.0	0.0	0.0	0.0	3010
1027	129.7	3.50	0.0	0.0	0.0	0.0	5010
1029	104.7 131.0	3.60	0.0	0.0	0.0	0.0	5010
1030	123.2	5.50	0.0	3.53	0.0	0.0	1010
1031	136.1	4.60	0.0	0.0	0.0	0.0	5010
1032	129.7	3.50	0.0	0.0	0.0	0.0	5010
1033	102.8	4.60	0.0	0.0	0.0	0.0	5010
1034	141.8	4.60	0.0	0.0	0.0	0.0	5010
10.35	130.4	3.70 4.60	0.0	0.0	0.0	0.0	5010
1036	130.3	4.40	0.0	0.0	0.0	0.0	5010
1037	129 1	3.70	0.0	0.0	0.0	0.0	5010
		J. 10	0.0	0.0	0.0	0.0	5010

LA PAZ, BOLIVIA

EVENT	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR	COMMENT
			1 20560	1-30360	1-405EC	RATIO	
1038	124.4	3.90	0.0	0.0	0.0	0.0	5010
1039	126.2	6.10	5.03	4.81	0.0	0.0	1010
1040	132.8	4.20	0.0	0.0	0.0	0.0	5010
1041	129.7	4.00	0.0	0.0	0.0	0.0	5010
1042	99.0	3.70	0.0	0.0	0.0	0.0	5010
1043	129.7	3.90	0.0	0.0	0.0	0.0	5010
1044 1045	141.1	3.40	0.0	0.0	0.0	0.0	5010
1045	124.9	3.70	0.0	0.0	0.0	0.0	5010
1047	130.1	3.60	0.0	0.0	0.0	0.0	5010
1048	140.4 101.5	3.60	0.0	0.0	0.0	0.0	5010
1049	140.0	4.00	0.0	0.0	0.0	0.0	5010
1050	130.9	3.60	0.0	0.0	0.0	0.0	5010
1051	144.2	5.00 3.60	0.0	0.0	0.0	0.0	5010
1052	99.5		0.0	0.0	0.0	0.0	5010
1053	139.2	*3.60	0.0	0.0	0.0	0.0	5010
1054	139.0	5.00 4.10	0.0	0.0	0.0	0.0	5010
1055	122.3	3.60	0.0	0.0	0.0	0.0	5010
1056	130.7	3.50	0.0	0.0	0.0	0.0	5010
1057	125.7	3.70	0.0	0.0	0.0	0.0	5010
1058	130.7	3.50	0.0	0.0	0.0	0.0	5010
1059	138.8	3.90	0.0 0.0	0.0	0.0	0.0	5010
1060	129.7	4.20	0.0	0.0	0.0	0.0	5010
1061	129.7	4.50	0.0	0.0	0.0	0.0	5010
1062	129.1	3.80	0.0	0.0	0.0	0.0	5010
1063	137.0	4.00	0.0	0.0	0.0	0.0	5010
1064	146.2	3.80	4.06	0.0	0.0	0.0	5010
1065	130.8	4.60	0.0	0.0	0.0	0.0	2010
1066	129.1	4.00	0.0	0.0	0.0 0.0	0.0	5010
1067	138.9	3.50	0.0	0.0	0.0	0.0	5010
1068	132.3	4.20	0.0	0.0	0.0	0.0	50 10
1069	159.6	3.80	0.0	0.0	0.0	0.0	5010
1070	131.3	4.40	0.0	0.0	0.0	0.0 0.0	5010
1071	130.6	4.70	0.0	0.0	0.0	0.0	5010
1076	123.1	3.50	0.0	0.0	0.0	0.0	5010 5010
1077	129.7	4.10	0.0	0.0	0.0	0.0	
1078	139.6	4.10	0.0	0.0	0.0	0.0	5010 5010
1079	160.4	3.60	0.0	0.0	0.0	0.0	3010
1080	171.0	4.80	0.0	0.0	0.0	0.0	5010
1081	106.2	4.40	0.0	0.0	0.0	0.0	5010
1082	139.3	4.30	0.0	0.0	0.0	0.0	5010
1083	130.8	5.70	4.33	4.24	4.04	0.0	1010
1084	152.8	4.50	0.0	0.0	0.0	0.0	5010
1985	130.3	6.10	4.78	4.89	4.53	0.0	1010
1086	99.5	4.70	0.0	0.0	0.0	0.0	5010
1087	100.9	4.00	0.0	0.0	0.0	0.0	5010
1089	130.6	3.90	0.0	0.0	0.0	0.0	5010
1099	136.2	3.70	0.0	0.0	0.0	0.0	5010
1090	128.2	4.00	0.0	0.0	0.0	0.0	5010

LA PAZ, BOLIVIA

1091	EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LP RATIO	COMMENT
1092	1091	159.1	3.70	0.0	0.0	0.0	0 - 0	50 10
1094 130.1	1092							
1094	1093							
1095	1094							
1096   127.3   3.50   0.0   0.0   0.0   0.0   5010     1097   123.1   3.60   0.0   0.0   0.0   0.0   5010     1098   105.9   3.80   0.0   0.0   0.0   0.0   5010     1099   123.9   3.60   0.0   0.0   0.0   0.0   5010     1101   125.3   3.70   0.0   0.0   0.0   0.0   5010     1102   129.7   3.70   0.0   0.0   0.0   0.0   5010     1103   122.3   3.80   0.0   0.0   0.0   0.0   5010     1104   132.3   4.50   0.0   0.0   0.0   0.0   0.0   5010     1105   123.1   3.60   0.0   0.0   0.0   0.0   5010     1106   130.3   5.20   0.0   0.0   0.0   0.0   5010     1107   106.4   4.30   0.0   0.0   0.0   0.0   5010     1108   101.3   4.20   0.0   0.0   0.0   0.0   5010     1109   101.1   3.90   0.0   0.0   0.0   0.0   5010     1110   125.3   3.50   0.0   0.0   0.0   0.0   5010     1111   122.3   4.00   0.0   0.0   0.0   0.0   5010     1112   154.3   5.20   0.0   0.0   0.0   0.0   5010     1113   161.4   4.00   0.0   0.0   0.0   0.0   5010     1114   127.7   4.20   0.0   0.0   0.0   0.0   5010     1115   139.0   4.30   0.0   0.0   0.0   0.0   5010     1116   138.3   3.80   0.0   0.0   0.0   0.0   5010     1117   122.1   4.70   0.0   0.0   0.0   0.0   5010     1118   122.1   4.60   0.0   0.0   0.0   0.0   5010     1121   125.5   3.90   0.0   0.0   0.0   0.0   5010     1122   135.5   3.90   0.0   0.0   0.0   0.0   5010     1123   127.4   4.80   0.0   0.0   0.0   0.0   5010     1124   125.8   3.60   0.0   0.0   0.0   0.0   5010     1125   130.7   *5.30   4.02   3.81   3.47   0.0   5010     1126   139.1   3.40   0.0   0.0   0.0   0.0   5010     1127   129.7   4.70   0.0   0.0   0.0   0.0   0.0   5010     1128   99.1   3.50   0.0   0.0   0.0   0.0   0.0   5010     1129   125.8   3.60   0.0   0.0   0.0   0.0   0.0   5010     133   167.5   5.50   4.85   4.68   4.57   0.0   0.0   5010     133   165.9   4.10   0.0   0.0   0.0   0.0   0.0   5010     133   165.9   4.10   0.0   0.0   0.0   0.0   0.0   5010     133   137.3   4.00   0.0   0.0   0.0   0.0   0.0   5010     133   137.3   4.00   0.0   0.0   0.0   0.0   0.0   5010     133   137	1095							
1097	1096	127.3	3.50					
1098	1097	123.1	3.60	0.0	0.0			
1099	1098	105.9	3.80	0.0				
1100	1099	123.9	3.60	0.0	0.0			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			*4.40	0.0	0.0	0.0		
1103         122.3         3.80         0.0         0.0         0.0         0.0         5010           1104         132.3         4.50         0.0         0.0         0.0         0.0         5010           1105         123.1         3.60         0.0         0.0         0.0         0.0         5010           1106         130.3         5.20         0.0         0.0         0.0         0.0         5010           1107         106.4         4.30         0.0         0.0         0.0         0.0         5010           1108         101.3         4.20         0.0         0.0         0.0         0.0         5010           1109         101.1         3.90         0.0         0.0         0.0         0.0         5010           1110         125.3         3.50         0.0         0.0         0.0         0.0         5010           1111         122.3         4.00         0.0         0.0         0.0         0.0         5010           1111         122.3         4.00         0.0         0.0         0.0         0.0         5010           1114         127.7         4.20         0.0         0.0			3.70	0.0	0.0	0.0	0.0	
1103         122.3         3.80         0.0         0.0         0.0         0.0         0.0         5010           1104         132.3         4.50         0.0         0.0         0.0         0.0         5010           1105         123.1         3.60         0.0         0.0         0.0         0.0         5010           1106         130.3         5.20         0.0         0.0         0.0         0.0         5010           1107         106.4         4.30         0.0         0.0         0.0         0.0         5010           1109         101.1         3.90         0.0         0.0         0.0         0.0         5010           1110         125.3         3.50         0.0         0.0         0.0         0.0         5010           1111         122.3         4.00         0.0         0.0         0.0         0.0         5010           1111         122.3         4.00         0.0         0.0         0.0         0.0         5010           1111         125.3         3.50         0.0         0.0         0.0         0.0         5010           11114         127.7         4.20         0.0			3.70	0.0	0.0	0.0	0.0	5010
1105         123.1         3.60         0.0         0.0         0.0         0.0         5010           1106         130.3         5.20         0.0         0.0         0.0         0.0         5010           1107         106.4         4.30         0.0         0.0         0.0         0.0         5010           1108         101.3         4.20         0.0         0.0         0.0         0.0         5010           1109         101.1         3.90         0.0         0.0         0.0         0.0         5010           1110         125.3         3.50         0.0         0.0         0.0         0.0         5010           1111         122.3         4.00         0.0         0.0         0.0         0.0         5010           1111         122.3         4.00         0.0         0.0         0.0         0.0         5010           1111         127.7         4.20         0.0         0.0         0.0         0.0         5010           1114         127.7         4.20         0.0         0.0         0.0         0.0         5010           1115         139.0         4.30         0.0         0.0				0.0	0.0		0.0	5010
1106         130.3         5.20         0.0         0.0         0.0         0.0         5010           1107         106.4         4.30         0.0         0.0         0.0         0.0         5010           1108         101.3         4.20         0.0         0.0         0.0         0.0         5010           1109         101.1         3.90         0.0         0.0         0.0         0.0         5010           1110         125.3         3.50         0.0         0.0         0.0         0.0         5010           1111         122.3         4.00         0.0         0.0         0.0         0.0         5010           1112         154.3         5.20         0.0         0.0         0.0         0.0         5010           1113         161.4         4.00         0.0         0.0         0.0         0.0         5010           1114         127.7         4.20         0.0         0.0         0.0         0.0         5010           1116         138.3         3.80         0.0         0.0         0.0         0.0         5010           1117         122.1         4.60         0.0         0.0				0.0	0.0	0.0	0.0	5010
1107         106.4         4.30         0.0         0.0         0.0         0.0         0.0         5010           1108         101.3         4.20         0.0         0.0         0.0         0.0         5010           1109         101.1         3.90         0.0         0.0         0.0         0.0         5010           1111         125.3         3.50         0.0         0.0         0.0         0.0         5010           1111         122.3         4.00         0.0         0.0         0.0         0.0         5010           1112         154.3         5.20         0.0         0.0         0.0         0.0         5010           1113         161.4         4.00         0.0         0.0         0.0         0.0         5010           1114         127.7         4.20         0.0         0.0         0.0         0.0         5010           1115         139.0         4.30         0.0         0.0         0.0         0.0         5010           1117         122.1         4.70         0.0         0.0         0.0         0.0         5010           1118         122.1         4.60         0.0					0.0	0.0	0.0	50 10
1108         101.3         4.20         0.0         0.0         0.0         0.0         5010           1109         101.1         3.90         0.0         0.0         0.0         0.0         5010           1110         125.3         3.50         0.0         0.0         0.0         0.0         5010           1111         122.3         4.00         0.0         0.0         0.0         0.0         5010           1112         154.3         5.20         0.0         0.0         0.0         0.0         5010           1113         161.4         4.00         0.0         0.0         0.0         0.0         5010           1114         127.7         4.20         0.0         0.0         0.0         0.0         5010           1115         139.0         4.30         0.0         0.0         0.0         0.0         5010           1116         138.3         3.80         0.0         0.0         0.0         0.0         5010           1117         122.1         4.70         0.0         0.0         0.0         0.0         5010           1118         122.1         4.60         0.0         0.0					0.0	0.0	0.0	5010
1109         101.1         3.90         0.0         0.0         0.0         0.0         5010           1110         125.3         3.50         0.0         0.0         0.0         0.0         5010           1111         122.3         4.00         0.0         0.0         0.0         0.0         5010           1112         154.3         5.20         0.0         0.0         0.0         0.0         5010           1113         161.4         4.00         0.0         0.0         0.0         0.0         5010           1114         127.7         4.20         0.0         0.0         0.0         0.0         5010           1115         139.0         4.30         0.0         0.0         0.0         0.0         5010           1116         138.3         3.80         0.0         0.0         0.0         0.0         5010           1117         122.1         4.70         0.0         0.0         0.0         0.0         5010           1118         122.1         4.60         0.0         0.0         0.0         0.0         5010           1120         130.3         4.40         0.0         0.0						0.0	0.0	5010
1110         125.3         3.50         0.0         0.0         0.0         0.0         5010           1111         122.3         4.00         0.0         0.0         0.0         0.0         5010           1112         154.3         5.20         0.0         0.0         0.0         0.0         5010           1113         161.4         4.00         0.0         0.0         0.0         0.0         5010           1114         127.7         4.20         0.0         0.0         0.0         0.0         5010           1115         139.0         4.30         0.0         0.0         0.0         0.0         5010           1116         138.3         3.80         0.0         0.0         0.0         0.0         5010           1117         122.1         4.70         0.0         0.0         0.0         0.0         5010           1118         122.1         4.60         0.0         0.0         0.0         0.0         5010           1120         130.3         4.40         0.0         0.0         0.0         0.0         5010           1121         129.7         4.50         0.0         0.0							0.0	5010
1111         122.3         4.00         0.0         0.0         0.0         0.0         5010           1112         154.3         5.20         0.0         0.0         0.0         0.0         5010           1113         161.4         4.00         0.0         0.0         0.0         0.0         5010           1114         127.7         4.20         0.0         0.0         0.0         0.0         5010           1115         139.0         4.30         0.0         0.0         0.0         0.0         5010           1116         138.3         3.80         0.0         0.0         0.0         0.0         5010           1117         122.1         4.70         0.0         0.0         0.0         0.0         5010           1118         122.1         4.60         0.0         0.0         0.0         0.0         5010           1119         99.5         4.00         3.26         0.0         0.0         0.0         5010           1120         130.3         4.40         0.0         0.0         0.0         0.0         5010           1121         129.7         4.50         0.0         0.0							0.0	
1112         154.3         5.20         0.0         0.0         0.0         0.0         5010           1113         161.4         4.00         0.0         0.0         0.0         0.0         5010           1114         127.7         4.20         0.0         0.0         0.0         0.0         5010           1115         139.0         4.30         0.0         0.0         0.0         0.0         5010           1116         138.3         3.80         0.0         0.0         0.0         0.0         5010           1117         122.1         4.70         0.0         0.0         0.0         0.0         5010           1118         122.1         4.60         0.0         0.0         0.0         0.0         5010           1119         99.5         4.00         3.26         0.0         0.0         0.0         2010           1120         130.3         4.40         0.0         0.0         0.0         0.0         3010           1121         129.7         4.50         0.0         0.0         0.0         0.0         5010           1122         135.5         3.90         0.0         0.0								5010
1113       161.4       4.00       0.0       0.0       0.0       0.0       5010         1114       127.7       4.20       0.0       0.0       0.0       0.0       5010         1115       139.0       4.30       0.0       0.0       0.0       0.0       0.0       5010         1116       138.3       3.80       0.0       0.0       0.0       0.0       0.0       5010         1117       122.1       4.70       0.0       0.0       0.0       0.0       0.0       5010         1118       122.1       4.60       0.0       0.0       0.0       0.0       0.0       5010         1119       99.5       4.00       3.26       0.0       0.0       0.0       3010         1120       130.3       4.40       0.0       0.0       0.0       0.0       3010         1121       129.7       4.50       0.0       0.0       0.0       0.0       3010         1122       135.5       3.90       0.0       0.0       0.0       0.0       5010         1123       127.4       4.80       0.0       0.0       0.0       0.0       5010         112								
1114         127.7         4.20         0.0         0.0         0.0         0.0         5010           1115         139.0         4.30         0.0         0.0         0.0         0.0         5010           1116         138.3         3.80         0.0         0.0         0.0         0.0         5010           1117         122.1         4.70         0.0         0.0         0.0         0.0         5010           1118         122.1         4.60         0.0         0.0         0.0         0.0         5010           1119         99.5         4.00         3.26         0.0         0.0         0.0         2010           1120         130.3         4.40         0.0         0.0         0.0         0.0         3010           1121         129.7         4.50         0.0         0.0         0.0         0.0         3010           1123         127.4         4.80         0.0         0.0         0.0         0.0         5010           1124         125.4         3.70         0.0         0.0         0.0         0.0         5010           1125         130.7         *5.30         4.02         3.81								5010
1115         139.0         4.30         0.0         0.0         0.0         0.0         5010           1116         138.3         3.80         0.0         0.0         0.0         0.0         5010           1117         122.1         4.70         0.0         0.0         0.0         0.0         5010           1118         122.1         4.60         0.0         0.0         0.0         0.0         5010           1119         99.5         4.00         3.26         0.0         0.0         0.0         2010           1120         130.3         4.40         0.0         0.0         0.0         0.0         3010           1121         129.7         4.50         0.0         0.0         0.0         0.0         3010           1122         135.5         3.90         0.0         0.0         0.0         0.0         5010           1123         127.4         4.80         0.0         0.0         0.0         0.0         5010           1124         125.4         3.70         0.0         0.0         0.0         0.0         5010           1125         130.7         *5.30         4.02         3.81								
1116         138.3         3.80         0.0         0.0         0.0         0.0         5010           1117         122.1         4.70         0.0         0.0         0.0         0.0         5010           1118         122.1         4.60         0.0         0.0         0.0         0.0         5010           1119         99.5         4.00         3.26         0.0         0.0         0.0         2010           1120         130.3         4.40         0.0         0.0         0.0         0.0         3010           1121         129.7         4.50         0.0         0.0         0.0         0.0         5010           1122         135.5         3.90         0.0         0.0         0.0         0.0         5010           1123         127.4         4.80         0.0         0.0         0.0         0.0         5010           1124         125.4         3.70         0.0         0.0         0.0         0.0         5010           1125         130.7         *5.30         4.02         3.81         3.47         0.0         1010           1126         139.1         3.40         0.0         0.0								
1117         122.1         4.70         0.0         0.0         0.0         0.0         5010           1118         122.1         4.60         0.0         0.0         0.0         0.0         5010           1119         99.5         4.00         3.26         0.0         0.0         0.0         2010           1120         130.3         4.40         0.0         0.0         0.0         0.0         3010           1121         129.7         4.50         0.0         0.0         0.0         0.0         5010           1122         135.5         3.90         0.0         0.0         0.0         0.0         5010           1123         127.4         4.80         0.0         0.0         0.0         0.0         5010           1124         125.4         3.70         0.0         0.0         0.0         0.0         5010           1125         130.7         *5.30         4.02         3.81         3.47         0.0         1010           1126         139.1         3.40         0.0         0.0         0.0         0.0         5010           1127         129.7         4.70         0.0         0.0								
1118       122.1       4.60       0.0       0.0       0.0       5010         1119       99.5       4.00       3.26       0.0       0.0       0.0       2010         1120       130.3       4.40       0.0       0.0       0.0       0.0       3010         1121       129.7       4.50       0.0       0.0       0.0       0.0       5010         1122       135.5       3.90       0.0       0.0       0.0       0.0       5010         1123       127.4       4.80       0.0       0.0       0.0       0.0       5010         1124       125.4       3.70       0.0       0.0       0.0       0.0       5010         1125       130.7       *5.30       4.02       3.81       3.47       0.0       1010         1126       139.1       3.40       0.0       0.0       0.0       0.0       5010         1127       129.7       4.70       0.0       0.0       0.0       0.0       5010         1130       167.2       3.90       0.0       0.0       0.0       0.0       3010         1131       165.4       4.80       0.0       0.0								
1119       99.5       4.00       3.26       0.0       0.0       0.0       2010         1120       130.3       4.40       0.0       0.0       0.0       0.0       0.0       3010         1121       129.7       4.50       0.0       0.0       0.0       0.0       0.0       5010         1122       135.5       3.90       0.0       0.0       0.0       0.0       5010         1123       127.4       4.80       0.0       0.0       0.0       0.0       5010         1124       125.4       3.70       0.0       0.0       0.0       0.0       5010         1125       130.7       *5.30       4.02       3.81       3.47       0.0       1010         1126       139.1       3.40       0.0       0.0       0.0       0.0       5010         1127       129.7       4.70       0.0       0.0       0.0       0.0       5010         1128       99.1       3.50       0.0       0.0       0.0       0.0       3010         1130       167.2       3.90       0.0       0.0       0.0       0.0       3010         1131       165.9       <								
1120       130.3       4.40       0.0       0.0       0.0       0.0       3010         1121       129.7       4.50       0.0       0.0       0.0       0.0       5010         1122       135.5       3.90       0.0       0.0       0.0       0.0       5010         1123       127.4       4.80       0.0       0.0       0.0       0.0       5010         1124       125.4       3.70       0.0       0.0       0.0       0.0       5010         1125       130.7       *5.30       4.02       3.81       3.47       0.0       1010         1126       139.1       3.40       0.0       0.0       0.0       0.0       5010         1127       129.7       4.70       0.0       0.0       0.0       0.0       5010         1128       99.1       3.50       0.0       0.0       0.0       0.0       3010         1130       167.2       3.90       0.0       0.0       0.0       0.0       3010         1131       165.4       4.80       0.0       0.0       0.0       0.0       3010         1133       156.9       4.10       0.0								
1121       129.7       4.50       0.0       0.0       0.0       0.0       0.0       5010         1122       135.5       3.90       0.0       0.0       0.0       0.0       0.0       5010         1123       127.4       4.80       0.0       0.0       0.0       0.0       5010         1124       125.4       3.70       0.0       0.0       0.0       0.0       5010         1125       130.7       *5.30       4.02       3.81       3.47       0.0       1010         1126       139.1       3.40       0.0       0.0       0.0       0.0       0.0       5010         1127       129.7       4.70       0.0       0.0       0.0       0.0       0.0       5010         1128       99.1       3.50       0.0       0.0       0.0       0.0       3010         1130       167.2       3.90       0.0       0.0       0.0       0.0       3010         1131       165.4       4.80       0.0       0.0       0.0       0.0       3010         1132       167.5       5.50       4.85       4.68       4.57       0.0       1010         <								
1122       135.5       3.90       0.0       0.0       0.0       0.0       5010         1123       127.4       4.80       0.0       0.0       0.0       0.0       5010         1124       125.4       3.70       0.0       0.0       0.0       0.0       0.0       5010         1125       130.7       *5.30       4.02       3.81       3.47       0.0       1010         1126       139.1       3.40       0.0       0.0       0.0       0.0       0.0       5010         1127       129.7       4.70       0.0       0.0       0.0       0.0       0.0       5010         1128       99.1       3.50       0.0       0.0       0.0       0.0       3010         1130       167.2       3.90       0.0       0.0       0.0       0.0       3010         1131       165.4       4.80       0.0       0.0       0.0       0.0       3010         1132       167.5       5.50       4.85       4.68       4.57       0.0       1010         1133       156.9       4.10       0.0       0.0       0.0       0.0       5010         1134								
1123       127.4       4.80       0.0       0.0       0.0       0.0       5010         1124       125.4       3.70       0.0       0.0       0.0       0.0       5010         1125       130.7       *5.30       4.02       3.81       3.47       0.0       1010         1126       139.1       3.40       0.0       0.0       0.0       0.0       5010         1127       129.7       4.70       0.0       0.0       0.0       0.0       5010         1128       99.1       3.50       0.0       0.0       0.0       0.0       0.0       3010         1130       167.2       3.90       0.0       0.0       0.0       0.0       3010         1131       165.4       4.80       0.0       0.0       0.0       0.0       3010         1132       167.5       5.50       4.85       4.68       4.57       0.0       1010         1133       156.9       4.10       0.0       0.0       0.0       0.0       3010         1134       125.8       3.60       0.0       0.0       0.0       0.0       5010         1136       127.7       3.90								
1124       125.4       3.70       0.0       0.0       0.0       0.0       5010         1125       130.7       *5.30       4.02       3.81       3.47       0.0       1010         1126       139.1       3.40       0.0       0.0       0.0       0.0       5010         1127       129.7       4.70       0.0       0.0       0.0       0.0       5010         1128       99.1       3.50       0.0       0.0       0.0       0.0       0.0       3010         1130       167.2       3.90       0.0       0.0       0.0       0.0       3010         1131       165.4       4.80       0.0       0.0       0.0       0.0       3010         1132       167.5       5.50       4.85       4.68       4.57       0.0       1010         1133       156.9       4.10       0.0       0.0       0.0       0.0       3010         1134       125.8       3.60       0.0       0.0       0.0       0.0       5010         1135       140.8       3.80       0.0       0.0       0.0       0.0       5010         1137       103.5       3.80								
1125       130.7       *5.30       4.02       3.81       3.47       0.0       1010         1126       139.1       3.40       0.0       0.0       0.0       0.0       5010         1127       129.7       4.70       0.0       0.0       0.0       0.0       0.0       5010         1128       99.1       3.50       0.0       0.0       0.0       0.0       0.0       3010         1130       167.2       3.90       0.0       0.0       0.0       0.0       3010         1131       165.4       4.80       0.0       0.0       0.0       0.0       3010         1132       167.5       5.50       4.85       4.68       4.57       0.0       1010         1133       156.9       4.10       0.0       0.0       0.0       0.0       3010         1134       125.8       3.60       0.0       0.0       0.0       0.0       5010         1135       140.8       3.80       0.0       0.0       0.0       0.0       5010         1137       103.5       3.80       0.0       0.0       0.0       0.0       5010         1138       137.3								
1126       139.1       3.40       0.0       0.0       0.0       0.0       5010         1127       129.7       4.70       0.0       0.0       0.0       0.0       0.0       5010         1128       99.1       3.50       0.0       0.0       0.0       0.0       0.0       3010         1130       167.2       3.90       0.0       0.0       0.0       0.0       3010         1131       165.4       4.80       0.0       0.0       0.0       0.0       3010         1132       167.5       5.50       4.85       4.68       4.57       0.0       1010         1133       156.9       4.10       0.0       0.0       0.0       0.0       3010         1134       125.8       3.60       0.0       0.0       0.0       0.0       5010         1135       140.8       3.80       0.0       0.0       0.0       0.0       5010         1137       103.5       3.80       0.0       0.0       0.0       0.0       5010         1138       137.3       4.00       0.0       0.0       0.0       0.0       5010         1139       99.6 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
1127       129.7       4.70       0.0       0.0       0.0       0.0       5010         1128       99.1       3.50       0.0       0.0       0.0       0.0       0.0       3010         1130       167.2       3.90       0.0       0.0       0.0       0.0       0.0       3010         1131       165.4       4.80       0.0       0.0       0.0       0.0       3010         1132       167.5       5.50       4.85       4.68       4.57       0.0       1010         1133       156.9       4.10       0.0       0.0       0.0       0.0       3010         1134       125.8       3.60       0.0       0.0       0.0       0.0       5010         1135       140.8       3.80       0.0       0.0       0.0       0.0       5010         1136       127.7       3.90       0.0       0.0       0.0       0.0       5010         1138       137.3       4.00       0.0       0.0       0.0       0.0       5010         1139       99.6       4.10       0.0       0.0       0.0       0.0       5010								
1128       99.1       3.50       0.0       0.0       0.0       0.0       0.0       3010         1130       167.2       3.90       0.0       0.0       0.0       0.0       0.0       3010         1131       165.4       4.80       0.0       0.0       0.0       0.0       3010         1132       167.5       5.50       4.85       4.68       4.57       0.0       1010         1133       156.9       4.10       0.0       0.0       0.0       0.0       0.0       3010         1134       125.8       3.60       0.0       0.0       0.0       0.0       5010         1135       140.8       3.80       0.0       0.0       0.0       0.0       5010         1136       127.7       3.90       0.0       0.0       0.0       0.0       5010         1138       137.3       4.00       0.0       0.0       0.0       0.0       5010         1139       99.6       4.10       0.0       0.0       0.0       0.0       5010								
1130       167.2       3.90       0.0       0.0       0.0       0.0       3010         1131       165.4       4.80       0.0       0.0       0.0       0.0       3010         1132       167.5       5.50       4.85       4.68       4.57       0.0       1010         1133       156.9       4.10       0.0       0.0       0.0       0.0       3010         1134       125.8       3.60       0.0       0.0       0.0       0.0       5010         1135       140.8       3.80       0.0       0.0       0.0       0.0       5010         1136       127.7       3.90       0.0       0.0       0.0       0.0       5010         1137       103.5       3.80       0.0       0.0       0.0       0.0       5010         1138       137.3       4.00       0.0       0.0       0.0       0.0       5010         1139       99.6       4.10       0.0       0.0       0.0       0.0       5010								
1131       165.4       4.80       0.0       0.0       0.0       0.0       3010         1132       167.5       5.50       4.85       4.68       4.57       0.0       1010         1133       156.9       4.10       0.0       0.0       0.0       0.0       0.0       3010         1134       125.8       3.60       0.0       0.0       0.0       0.0       5010         1135       140.8       3.80       0.0       0.0       0.0       0.0       5010         1136       127.7       3.90       0.0       0.0       0.0       0.0       5010         1137       103.5       3.80       0.0       0.0       0.0       0.0       5010         1138       137.3       4.00       0.0       0.0       0.0       0.0       5010         1139       99.6       4.10       0.0       0.0       0.0       0.0       5010								
1132       167.5       5.50       4.85       4.68       4.57       0.0       1010         1133       156.9       4.10       0.0       0.0       0.0       0.0       0.0       3010         1134       125.8       3.60       0.0       0.0       0.0       0.0       5010         1135       140.8       3.80       0.0       0.0       0.0       0.0       5010         1136       127.7       3.90       0.0       0.0       0.0       0.0       5010         1137       103.5       3.80       0.0       0.0       0.0       0.0       5010         1138       137.3       4.00       0.0       0.0       0.0       0.0       5010         1139       99.6       4.10       0.0       0.0       0.0       0.0       5010								
1133       156.9       4.10       0.0       0.0       0.0       0.0       3010         1134       125.8       3.60       0.0       0.0       0.0       0.0       0.0       5010         1135       140.8       3.80       0.0       0.0       0.0       0.0       5010         1136       127.7       3.90       0.0       0.0       0.0       0.0       5010         1137       103.5       3.80       0.0       0.0       0.0       0.0       5010         1138       137.3       4.00       0.0       0.0       0.0       0.0       5010         1139       99.6       4.10       0.0       0.0       0.0       0.0       5010								
1134       125.8       3.60       0.0       0.0       0.0       0.0       5010         1135       140.8       3.80       0.0       0.0       0.0       0.0       5010         1136       127.7       3.90       0.0       0.0       0.0       0.0       5010         1137       103.5       3.80       0.0       0.0       0.0       0.0       5010         1138       137.3       4.00       0.0       0.0       0.0       0.0       5010         1139       99.6       4.10       0.0       0.0       0.0       0.0       5010								
1135       140.8       3.80       0.0       0.0       0.0       0.0       5010         1136       127.7       3.90       0.0       0.0       0.0       0.0       5010         1137       103.5       3.80       0.0       0.0       0.0       0.0       5010         1138       137.3       4.00       0.0       0.0       0.0       0.0       5010         1139       99.6       4.10       0.0       0.0       0.0       0.0       5010								
1136       127.7       3.90       0.0       0.0       0.0       0.0       5010         1137       103.5       3.80       0.0       0.0       0.0       0.0       5010         1138       137.3       4.00       0.0       0.0       0.0       0.0       5010         1139       99.6       4.10       0.0       0.0       0.0       0.0       5010								
1137     103.5     3.80     0.0     0.0     0.0     0.0     0.0       1138     137.3     4.00     0.0     0.0     0.0     0.0     5010       1139     99.6     4.10     0.0     0.0     0.0     0.0     5010								
1138 137.3 4.00 0.0 0.0 0.0 0.0 5010 1139 99.6 4.10 0.0 0.0 0.0 5010								
1139 99.6 4.10 0.0 0.0 0.0 0.0 5010								
	1140	129.7	4.10					

LA PAZ, BOLTVIA

EVENT NO.	DISTANCE (DEGREFS)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1141	124.6	5.20	4.07	3.67	0.0	0.0	1010
1142	137.8	4.00	0.0	0.0	0.0	0.0	5010
1143	166.9	5.30	0.0	0.0	0.0	0.0	5010
1144	166.4	4.30	0.0	0.0	0.0	0.0	3010
1145	166.9	4.40	0.0	0.0	0.0	0.0	5010
1146	145.3	3.80	0.0	0.0	0.0	0.0	5010
1148	127.5	3.60	0.0	0.0	0.0	0.0	5010
1149	135.0	4.60	0.0	0.0	0.0	0.0	5010
1150	146.5	3.90	0.0	0.0	0.0	0.0	5010
1151	130.6	4.80	0.0	0.0	0.0	0.0	5010
1152	126.0	4.70	0.0	0.0	0.0	0.0	5010
1153	137.9	3.80	0.0	0.0	0.0	0.0	5010
1154	136.5	3.80	0.0	0.0	0.0	0.0	5010
1155	136.9	4.40	0.0	0.0	0.0	0.0	5010
1156	137.5	3.80	0.0	0.0	0.0	0.0	.50 10
1157	136.8	3.70	0.0	0.0	0.0	0.0	5010
1158 1159	136.1	5.00	0.0	0.0	0.0	0.0	50 10
1160	123.1 136.8	3.80	0.0	0.0	0.0	0.0	2010
1161	148.0	4.00	0.0	0.0	0.0	0.0	5010
1162	138.8	4.30 4.20	0.0	0.0	0.0	0.0	5010
1163	137.8	3.80	0.0 0.0	0.0	0.0	0.0	5010
1164	150.7	4.80	0.0	0.0	0.0	0.0	5010
1165	140.1	4.30	0.0	0.0	0.0	0.0 0.0	5010 5010
1166	139.5	5.20	0.0	0.0	0.0	0.0	5010
1167	140.5	3.70	0.0	0.0	0.0	0.0	50 10
1168	139.4	5.30	0.0	0.0	0.0	0.0	5010
1169	140.1	3.60	0.0	0.0	0.0	0.0	5010
1170	140.2	4.10	0.0	0.0	0.0	0.0	50 10
1171	122.7	4.00	0.0	0.0	0.0	0.0	5010
1172	139.4	5.40	0.0	4.17	0.0	0.0	1010
1173	139.6	3.90	0.0	0.0	0.0	0.0	3010
1174	139.3	4.70	0.0	0.0	0.0	0.0	3010
1175	139.4	4.10	0.0	0.0	0.0	0.0	3010
1176	139.3	4.50	0.0	0.0	0.0	0.0	3010
1177	139.4	4.20	0.0	0.0	0.0	0.0	50 10
1178	139.5	4.60	4.02	0.0	0.0	0.0	2010
1179	139.4	4.70	0.0	0.0	0.0	0.0	5010
1180	139.4	5.30	0.0	0.0	0.0	0.0	5010
1181 1182	138.5	3.40	0.0	0.0	0.0	0.0	5010
1183	139.2 139.5	5.40	0.0	0.0	0.0	0.0	5010
1184	137.2	4.50	0.0	0.0	0.0	0.0	5010
1185	137.2	3.60 4.20	0.0	0.0	0.0	0.0	3010
1186	139.0	3.50	0.0	0.0	0.0	0.0	5010
1187	139.5	4.10	0.0	0.0 0.0	0.0	0.0	5010
1188	139.0	3.70	0.0	0.0	0.0	0.0 0.0	5010
1189	139.0	3.30	0.0	0.0	0.0	0.0	50 10 50 10
1190	139.4	4.40	0.0	0.0	0.0	0.0	5010
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LA PAZ, BOLIVIA

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/I.R RATIO	COMMENT
1191	139.4	4.10	0.0	0.0	0 0	0 0	
1192	139.2	4.10	0.0	0.0	0.0	0.0	5010
1193	140.1	3.60	0.0	0.0	0.0	0.0	5010
1194	139.4	4.20	0.0	0.0	0.0	0.0	5010
1195	140.1	3.70	0.0	0.0	0.0	0.0	5010
1196	139.3	4.30	0.0	0.0	0.0	0.0	50 10
1197	139.0	3.60	0.0	0.0	0.0	0.0	5010
1198	139.5	4.90	0.0	0.0	0.0	0.0	5010
1199	139.4	4.50	0.0	0.0	0.0	0.0	5010
1200	171.2	4.20	0.0	0.0	0.0	0.0	5010
1201	139.0	4.20	0.0	0.0	0.0	0.0	50 <b>1</b> 0
1202	139.0	4.20	0.0	0.0	0.0	0.0	5010
1203	137.8	3.40	4.40	0.0	0.0	0.0	5010
1204	134.4	3.70	0.0	0.0	0.0	0.0	2010
1205	124.4	4.30	0.0	0.0	0.0	0.0	50 <b>1</b> 0
1206	143.3	3.90	4.36	0.0	0.0	0.0	5010
1207	130.1	3.60	0.0	0.0	0.0	0.0	2010
1208	139.3	4.10	0.0	0.0	0.0	0.0	5010
1209	139.5	3.70	0.0	0.0	0.0	0.0	50 <b>1</b> 0 3010
1211	141.2	3.80	0.0	0.0	0.0	0.0	50 <b>1</b> 0
1212	128.9	4.30	0.0	0.0	0.0	0.0	5010
1213	137.2	3.70	0.0	0.0	0.0	0.0	50 <b>1</b> 0
1214	128.7	3.40	0.0	0.0	0.0	0.0	3010
1215	140.3	3.60	0.0	0.0	0.0	0.0	5010
1216	154.9	3.80	0.0	0.0	0.0	0.0	5010
1223	126.8	5.10	0.0	0.0	0.0	0.0	5010
1224	140.4	3.80	0.0	0.0	0.0	0.0	5010
1225	123.1	3.60	0.0	0.0	0.0	0.0	5010
1226	126.1	3.70	0.0	0.0	0.0	0.0	5010
1227	141.2	4.70	0.0	0.0	0.0	0.0	50 10
1228	140.0	3.70	0.0	0.0	0.0	0.0	50 10
1232	130.1	5.60	0.0	0.0	0.0	0.0	5010
1233	140.2	3.20	0.0	0.0	0.0	0.0	5010
1234	121.2	3.40	0.0	0.0	0.0	0.0	50 10
1235	140.2	3.60	0.0	0.0	0.0	0.0	5010
1238	145.6	3.40	0.0	0.0	0.0	0.0	5010
1239	125.3	4.40	0.0	0.0	0.0	0.0	5010
1240	140.0	4.00	0.0	0.0	0.0	0.0	5010
1242	137.8	4.00	0.0	0.0	0.0	0.0	5010
1243	138.6	4.20	0.0	0.0	0.0	0.0	5010
1244	137.3	3.50	0.0	0.0	0.0	0.0	5010
1245	125.4	3. <b>7</b> 0	0.0	0.0	0.0	0.0	5010
1246	159.1	3.60	0.0	0.0	0.0	0.0	5010
1255	125.9	3.60	3.71	0.0	0.0	0.0	2010
1256	124.9	3.30	0.0	0.0	0.0	0.0	5010
1266	137.0	5.40	0.0	0.0	0.0	0.0	5010
1268	134.1	5.30	0.0	0.0	0.0	0.0	5010
1269	131.4	5.30	0.0	0.0	0.0	0.0	5010
1272	115.8	6.00	0.0	0.0	0.0	0.0	5010

LA PAZ, BOLIVIA

EVENT NO.	DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1273 1274 1275 1276 1277 1278 1279	123.0 137.1 122.8 115.9 115.6 115.5 115.0	5.20 5.30 4.80 6.90 4.20 4.40 4.80 6.00	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	5010 5010 5010 5010 2010 5010 5010

APPENDIX II-M
BASIC DATA FOR
MATSUSHIRO, JAPAN (MAT)

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LP RATIO	COMMENT
852	18.0	4.10	0.0	0.0	0.0	0.0	20 11
853	39.A	3.90	0.0	0.0	0.0	0.0	5011
854	42.3	3.80	0.0	0.0	0.0	0.0	2011
855	52.6	4.00	0.0	0.0	0.0	0.0	3011
856	80.2	3.70	0.0	0.0	0.0	0.0	5011
857	23.9	4.80	0.0	3.32	0.0	0.0	1011
858	12.5	4.70	3.35	5.12	0.0	0.0	10 11
859	22.1	5.70	5.31	5.25	0.0	0.72	1011
860	23.4	3.50	0.0	0.0	0.0	0.0	2011
86 <b>1</b>	61.4	3.60	0.0	0.0	0.0	0.0	2011
862	70.7	4.60	0.0	0.0	0.0	0.0	2011
863	82.6	3.60	0.0	0.0	0.0	0.0	2011
964	13.5	4.00	0.0	0.0	0.0	0.0	30 11
865	44.5	4.50	0.0	0.0	0.0	0.0	2011
866	83.8	3.50	0.0	0.0	0.0	0.0	30 1 1
867	18.5	4.10	3.55	0.0	0.0	0.0	1011
869	25.6	4.30	0.0	0.0	0.0	0.0	5011
869	27.4	4.30	0.0	0.0	0.0	0.0	2011
я <b>7</b> 0	44.4	4.10	0.0	0.0	0.0	0.0	2011
871 872	11.1	3.80	0.0	0.0	0.0	0.0	5011
873	71.8 41.0	3.90	0.0	0.0	0.0	0.0	5011
R74	81.2	4.50 4.40	3.71 0.0	0.0	0.0	0.0	1011
875	41.0	4.90	3.55	3.36	0.0 3.12	0.0	2011
879	23.5	3.50	0.0	0.0	0.0	0.0	1011
H79	26.4	3.60	0.0	0.0	0.0	0.0	6011 2011
880	85.9	4.30	0.0	0.0	0.0	0.0	30 1 1
981	41.5	5.20	4.17	4.13	0.0	1.06	1011
882	19.7	4.10	0.0	0.0	0.0	0.0	20 1 1
883	42.6	3.70	0.0	0.0	0.0	0.0	3011
RPU	51.2	5.50	4.53	3.85	3.65	0.0	10 11
885	51.1	4.80	0.0	0.0	0.0	0.0	2011
886	53.0	3.80	0.0	0.0	0.0	0.0	2011
88 <b>7</b>	50.8	4.70	0.0	0.0	0.0	0.0	2011
BBB	20.2	3.50	0.0	0.0	0.0	0.0	2011
889	25.2	3.40	0.0	4.32	3.61	0.03	6011
660	86.7	5.30	5.46	4.66	0.0	0.99	1011
891	87.1	4.00	0.0	0.0	0.0	0.0	2011
892	86.7	4.30	0.0	0.0	0.0	0.0	20 11
89 <b>3</b>	17.9	4.70	3.53	0.0	0.0	0.0	1011
901	23.9	3.80	0.0	0.0	0.0	0.0	2011
902	53.0	3.70	0.0	0.0	0.0	0.0	2011
903	69.9	3.90	0.0	0.0	0.0	0.0	2011
904	23.5	3.90	0.0	0.0	0.0	0.0	20 11
905	51.5	3.80	0.0	0.0	0.0		20 11
906	70.6	3.60	0.0	0.0		0.0	2011
914 915	31.2	4.60	0.0	3.45	2.83	2.24	1011
	56.3	4.80	0.0	0.0	0.0	0.0	2011
916	56.3	4.50	0.0	0.0	0.0	0.0	2011

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SFC	LQ/LR RATIO	COMMENT
917	62.6	3.80	0.0	0.0	0.0	0.0	2011
918	56.4	5.00	0.0	3.76	0.0	1.29	1711
919	53.4	3.60	0.0	0.0	0.0	0.0	2011
920	32.7	3.70	0.0	0.0	0.0	0.0	5011
921	58.1	3.90	0.0	0.0	0.0	0.0	3011
922	58.1	4.00	0.0	0.0		0.0	5011
923	11.7	3.90	0.0	0.0	0.0	0.0	2011
924	51.3	4.30	0.0	0.0	0.0	0.0	2011
925	<b>17.</b> 5	4.00	2.75	0.0	2.28	0.0	1011
926	36.7	4.90	3.29	2.82	2.64	1.05	1011
927	85.7	4.60	0.0	0.0	0.0	0.0	2011
928	12.3	3.40	0.0	3.36	2.86	0.11	1011
929	43.1	5.10	0.0	3.47	3.06	1.66	1011
930	41.8	4.50	0.0	0.0	0.0	0.0	20 11
931	50.7	3.70	0.0	0.0	0.0	0.0	2011
932	24.1	5.30	0.0	4.33	0.0	0.0	10 1 1
933	87.4	4.70	0.0	0.0	0.0	0.0	5011
934	85.9	3.70	0.0	0.0	0.0	0.0	2011
935 936	11.1	4.00	0.0	3.55	0.0	0.12	10 1 1
93h 9 <b>37</b>	12.3 19.2	3,80 5.20	0.0 4.48	0.0	0.0 n.n	0.0	2011
938	50.7	4.00	0.0	0.0	0.0	0.29 0.0	10 11 20 11
939	86.3	4.30	0.0	0.0	0.0	0.0	2011
940	51.3	5.00	0.0	0.0	0.0	0.0	2011
941	86.1	4.30	0.0	0.0	0.0	0.0	5011
942	65.9	4.50	3.52	3.44	0.0	0.0	1011
943	24.6	4.50	0.0	3.24	3.01	2.59	1011
944	82.1	3.90	0.0	0.0	0.0	0.0	2011
945	84.4	3.60	0.0	0.0	0.0	0.0	2011
946	34.0	4.30	3.50	3.03	0.0	1.47	6011
947	82.9	3.30	0.0	0.0	0.0	0.0	2011
948	83.9	3.80	0.0	0.0	0.0	0.0	5011
957	86.4	4.50	0.0	0.0	0.0	0.0	2011
958	52.6	3.90	0.0	0.0	0.0-	0.0	2011
959	27.6	4.60	3.17	3.11	0.0	3.47	6011
960	10.8	3.70	0.0	0.0	0.0	0.0	20 11
961	31.1	4.30	3.68	3.16	0.0	0.38	1011
962	10.5	4.10	2.71	2.79	2.10	1.65	1011
963	65.7	4.00	0.0	0.0	0.0	0.0	2011
964	14.6	3.80	0.0	0.0	0.0	0.0	2011
965	40.8	4.80	0.0	3.25	3.09	1.68	1011
966 967	70.2 26.4	5.20 3.80	4.29 0.0	4.11 0.0	3.86	0.0	1011
984	19.2	6.30	0.0	0.0	0.0 0.0	0.0	2011
985	19.4	4.90	0.0	0.0	0.0	0.0	5011 5011
986	19.1	5.30	0.0	0.0	0.0	0.0	3011
987	19.1	5.50	0.0	0.0	0.0	0.0	3011
988	18.0	4.20	0.0	0.0	0.0	0.0	3011
989	20.7	3.80	0.0	0.0	0.0	0.0	5011
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FVENT	DISTANCE	МВ	NS	MS	MS	I O /I D	00 H H D H =
иО.	(DEGREES)		T = 205 FC			LQ/LR RATIO	COMMENT
990	56.8	4.20	0.0	0.0	0.0	0.0	5011
991	19.1	4.00	0.0	0.0	0.0	0.0	5011
992	20.2	4.30	0.0	0.0	0.0	0.0	5011
993	20.2	4.10	0.0	0.0	0.0	0.0	5011
994	18.6	3.60	0.0	0.0	0.0	0.0	5011
995	20.2	4.00	0.0	0.0	0.0	0.0	5011
996	19.1	3.50	0.0	0.0	0.0	0.0	5011
997	19.1	4.90	0.0	0.0	0.0	0.0	50 11
998	19.2	4.20	0.0	0.0	0.0	0.0	5011
999	19.1	3.70	0.0	0.0	0.0	0.0	5011
1000	19.1	5.20	0.0	0.0	0.0	0.0	5011
1001	19.6	4.10	0.0	0.0	0.0	0.0	2011
1002 1003	19.6	3.90	0.0	0.0	0.0	0.0	5011
1005	18.8	3.90	0.0	0.0	0.0	0.0	5011
1005	19.7	3.90	0.0	0.0	0.0	0.0	5011
1007	19.6 20.2	3.90	0.0	0.0	0.0	0.0	5011
1008	19.1	4.60	0.0	0.0	0.0	0.0	5011
1009	19.6	5.50	4.64	3.55	0.0	1.66	1011
1010	19.1	4.20	3.44	0.0	0.0	0.0	2011
1011	20.2	4.00 3.90	3.00	0.0	0.0	0.0	2011
1012	19.1	4.50	2.97	2.81	2.48	0.0	1011
1013	20.2	4.40	3.12	3.04	0.0	0.0	1011
1014	20.R	3.90	2.93	0.0	0.0	0.0	2011
1015	18.1	3.40	2.99	0.0	0.0	0.0	2011
1016	19.7	4.60	2.50	0.0	0.0	0.0	2011
1017	32.1	4.20	2.93	2.90	2.34	0.0	1011
1018	17.5	4.70	3.40 2.91	0.0	0.0	0.0	2011
1019	19.7	4.00	0.0	2.79	0.0	0.0	6011
1023	20.2	3.70	0.0	3.77 0.0	3.61	0.50	1011
1024	19.6	4.10	2.62	0.0	0.0	0.0	5011
1025	20.2	4.20	3.56	2.87	0.0	0.0	2011
1026	50.5	3.70	0.0	0.0	0.0 0.0	1.41	10 1 1
1027	20.2	3.50	2.37	0.0	0.0	0.0	3011
1028	80.9	3.60	0.0	0.0	0.0	0.0	2011
1029	18.9	5.50	4.31	4.16	3.78	0.0	5011
1030	70.R	4.60	3.63	3.42	3.34	0.75	1011
1031	13.5	3.50	0.0	2.80	0.0	0.0	1011
1032	20.2	4.60	3.18	0.0	0.0	0.0	10 11
1033	45.8	4.60	3.84	0.0	0.0	0.0	2011
1034	51.5	3.70	3.12	0.0	0.0	0.0	2011
1035	19.5	4.60	3.70	3.28	0.0	0.50	2011
1036	19.7	4.40	2.88	2.81	0.0	0.50	10 11 60 11
1037	20.7	3.70	3.35	2.87	0.0	1.71	1011
1038	26.1	3.90	3.33	3.26	0.0	0.0	1011
1039	24.2	6.10	5.66	5.59	5.08	1.26	1011
1040	16.8	4.20	2.47	0.0	0.0	0.0	2011
1041	20.2	4.00	3.43	3.00	0.0	0.92	1011
1042	85.5	3.70	3.44	0.0	0.0	0.0	2011
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EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1043	20.2	3.90	3.09	3.06	2.72	1.24	10 1 1
1044	48.0	3.40	3.77	3.55	0.0	0.0	1011
1045	25.6	3.70	3.71	0.0	0.0	0.0	2011
1046	19.6	3.60	2.89	0.0	0.0	0.0	2011
1047	51.5	3.60	3.22	0.0	0.0	0.0	2011
1048	83.6	4.00	3.58	0.0	0.0	0.0	2011
1049	52.6	3.60	0.0	0.0	0.0	0.0	30 11
1050	18.9	5.00	3.72	3.16	0.0	1.30	1011
1051	47.7	3.60	3.37	0.0	0.0	0.0	20 11
1052	83.5	*3.60	3.74	0.0	0.0	0.0	2011
1053	52.5	5.00	3.63	0.0	0.0	0.0	2011
1054	10.5	4.10	2.83	2.52	0.0	0.0	1011
1055	70.8	3.60	3.61	0.0	0.0	0.0	2011
1056	19.1	3.50	0.0	0.0	0.0	0.0	5011
1057	24.4	3.70	3.01	0.0	0.0	0.0	2011
1058	19.1	3.50	3.45	3.33	0.0	0.0	1011
1059	10.5	3.90	0.0	0.0	0.0	0.0	30 11
1060	20.2	4.20	0.0	0.0	0.0	0.0	3011
1061	20.2	4.50	3.25	0.0	0.0	0.0	2011
1062	20.7	3.80	3.02	0.0	0.0	0.0	2011
1063	56.1	4.00	3.16	0.0	0.0	0.0	20 11
1064	32.1	3.80	4.59	0.0	0.0	0.0	2011
1065	19.0	4.60	4.04	3.66	0.0	0.0	10 11
1066	20.7	4.00	2.77	0.0	0.0	0.0	2011
1067	53.0	3.50	3.28	0.0	0.0	0.0	20 11
1068	17.5	4.20	0.0	0.0	0.0	0.0	3011
1069	40.9	3.80	3.17	3.06	0.0	0.0	1011
1070	18.6	4.40	2.76	0.0	0.0	0.0	2011
1071	19.4	4.70	3.47	3.26	0.0	0.0	10 11
1072	85.1	3. 10	0.0	0.0	0.0	0.0	3011
1073	86.5	3.70	3.52	0.0	0.0	0.0	2011
1074	17.5	4.40	3.17	2.73	0.0	0.0	10.11
1075	18.0	3.90	2.83	0.0	0.0	0.0	2011
1076 1077	70.6	3.50	3.64	0.0	0.0	0.0	2011
1077	20.2	4.10	2.84	0.0	0.0	0.0	20 11
1076	80.7	4.10	3.07	0.0	0.0	1.61	1011
1082	10.2	4.40 4.30	3.36	0.0	0.0	0.0	2011
1082	19.0	5.70	3. 27	2.87	0.0	1.07	1011
1084	35.2		5.20 3.68	4.73	0.0	1.66	10 11
1085	19.6	6.10	5.62	0.0	0.0	0.0	2011
1086	86.6	4.70	4.92	5.48	0.0	0.68	1011
1087	86.6	4.00	3.45	0.0	0.0	0.0	2011
1088	19.0	3.90	2.78	0.0	0.0	0.0	2011
1089	13.6	3.70	2.73	0.0	0.0	0.0	2011
1090	21.8	4.00	0.0	0.0	0.0	0.0	2011
1091	38.8	3.70	3.13	0.0	0.0	0.0	5011
1092	47.8	4.20	3.41	0.0	0.0	0.0 0.0	2011
1093	14.8	4.30	2.97	2.73	2.53	2.87	2011
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## MATSUSHIRO, JAPAN

EVENT NO.	DISTANCE (DEGREES)	MP	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LR RATIO	COMMENT
1094	19.6	3.90	0.0	0.0	0.0	0.0	5011
1095	41.9	4.10	3.32	3.23	2.90	0.0	5011
1096	23.0	3.50	2.90	0.0	0.0	0.0	1011
1097	70.1	3.60	3.11	0.0	0.0	0.0	2011 2011
1098	79.9	3.80	3.26	0.0	0.0	0.0	2011
1099	26.5	3.60	2.99	0.0	0.0	0.0	2011
1100	70.5	*4.40	3.39	0.0	0.0	0.0	2011
1101	25.0	3.70	2.89	2.92	0.0	0.0	1011
1113	32.8	4.00	2.75	0.0	0.0	0.0	2011
1114	22.4	4.20	3.60	3.49	0.0	1.50	1011
1115	10.5	4.30	2.78	2.60	0.0	0.0	1011
1116	11.1	3.80	0.0	0.0	0.0	0.0	3011
1117	27.6	4.70	3.31	2.87	0.0	0.0	10 1 1
1118	27.6	4.60	2.78	0.0	0.0	0.0	2011
1119	86.6	4.00	3.39	0.0	0.0	0.0	2011
1120	19.7	4.40	0.0	3.27	0.0	0.38	1011
1121	20.2	4.50	3.02	0.0	0.0	0.0	20 11
1122	14.0	3.90	2.95	2.79	0.0	0.0	1011
1123	22.4	4.80	3.37	0.0	0.0	0.0	2011
1124	25.2	3.70	2.72	0.0	0.0	0.0	2011
1125	19.2	*5.30	4.73	4.36	3.83	1.77	10 1 1
1126 1127	10.8	3.40	2.47	0.0	0.0	0.0	2011
1128	20.2 85.6	4.70	3.02	2.91	0.0	0.0	10 1 1
1130	18.1	3.50	0.0	0.0	0.0	0.0	3011
1131	18.2	3.90	0.0	3.11	0.0	0.0	6011
1132	18.6	4.80	0.0	0.0	0.0	0.0	3011
1133	36.2	5.50	5.36	5.50	5.12	0.85	1011
1134	24.6	4.10 3.60	4.21	0.0	0.0	0.9	2011
1135	50.4	3.80	3.46 3.38	3.25	0.0	3.03	1011
1136	22.4	3.90	0.0	0.0	0.0	0.0	2011
1137	84.1	3.80	0.0	0.0 0.0	0.0	0.0	3011
1138	12.4	4.00	2.71	0.0	0.0	0.0	3011
1139	85.2	4.10	0.0	0.0	0.0	0.0	2011
1140	20.2	4.10	0.0	3.00	0.0 3.04	0.0 0.0	3011
1141	70.1	5.20	4.27	4.06	0.0		1011
1142	11.7	4.00	2.63	0.0	0.0	0.0	1011
1143	18.2	5.30	5.30	5.46	4.60	3.31	2011
1144	17.5	4.30	0.0		0.0	0.0	1011
1145	17.9	4.40	3.42	2.97	0.0	1.26	5011 1011
1146	32.2	3.80	2.92	0.0	0.0	0.0	2011
1148	68.4	3.60	3.96	0.0	0.0	0.0	2011
1149	14.6	4.60	3.01	2.90	0.0	0.56	1011
1150	48.4	3.90	3.17	0.0	0.0	0.0	2011
1151	19.3	4.80	3.47	3.19	0.0	0.71	1011
1152	24.4	4.70	0.0	0.0	0.0	0.0	3011
1153		3.80	3.89	0.0	0.0	0.0	2011
1154	52.0	3.80	0.0	0.0	0.0	0.0	5011
1155	53.9	4.40	4.32	0.0	0.0	1.38	10 11

## MATSUSHIPO, JAPAN

EVENT NO.	DISTANCE (DEGREES)	MR	MS T=20SEC	MS T=30SEC	MS T=40SEC	LQ/LF RATIO	COMMENT
1156	53.0	3.80	0.0	0.0	0.0	0.0	2011
1157	53.8	3.70	0.0	0.0	0.0	0.0	
1158	13.4	5.00	4.14	3.92	3.46	0.45	5011
1159	70.1	3.80	0.0	0.0	0.0	0.0	1011
1160	53.8	4.00	0.0	0.0	0.0	0.0	5011 5011
1161	38.9	4.30	0.0	0.0	0.0	0.0	5011
1162	10.8	4.20	0.0	0.0	0.0	0.0	3011
1163	11.7	3.80	2.97	2.55	2.19	1.01	10 1 1
1164	45.2	4.80	0.0	3.37	2.91	2.07	1011
1165	9.7	4.30	3.90	.40	0.0	1.12	10 1 1
1166	10.0	5.20	0.0	4.43	0.0	0.85	1011
1167	48.8	3.70	4.03	0.0	0.0	0.0	2011
1168	10.0	5.30	3.77	3.55	0.0	2.15	1011
1169	9.3	3.60	0.0	2.77	0.0	1.32	10 11
1170	9.4	4.10	2.82	2.31	0.0	2.39	1011
1187	10.0	4.10	0.0	0.0	0.0	0.0	5011
1188	10.5	3.70	0.0	0.0	0.0	0.0	5011
1189	10.5	3.30	0.0	2.61	0.0	5.69	1011
1190	10.1	4.40	3.55	3.24	0.0	0.93	1011
1191	10.1	4.10	0.0	0.0	0.0	0.0	30.11
1192	10.3	4.10	3.26	2.64	0.0	0.0	1011
1193	9.3	3.60	0.0	2.64	0.0	2.44	1011
1194	10.1	4.20	3.43	2.85	0.0	1.86	1011
1195	9.3	3.70	2.82	0.0	0.0	0.0	1011
1196	10.2	4.30	3.80	0.0	0.0	0.0	10 1 1
1197	10.5	3.60	0.0	0.0	0.0	0.0	3011
1198	10.0	4.90	0.0	4.05	0.0	0.71	1011
1199	10.1	4.50	3.88	0.0	0.0	2.54	1011
1200	24.0	4.20	0.0	0.0	0.0	0.0	5011
1201	10.5	4.20	0.0	0.0	0.0	0.0	3011
1202	10.5	4.20	0.0	0.0	0.0	0.0	3011
1203	11.7	3.40	4.24	0.0	0.0	0.0	10 11
1204	15.2	3.70	0.0	3.59	0.0	0.0	1011
1205 1206	70.6	4.30	3.30	3.27	0.0	0.0	10 11
1207	47.1	3.90	0.0	0.0	().()	0.0	3011
1207	19.6 10.2	3.60	0.0	0.0	-	0.0	2 11
1209	9.9		3.27	2.94	0.0	1.62	1 50
1211	49.3	3.70	2.83	0.0	0.0	0.0	10-11
1212	21.2	3.80 4.30	0.0	0.0		0.0	5011
1213	12.3		0.0		2.66	0.0	10 11
1214	21.3	3.40	2.83	0.0	0.0	0.0	1011
1215	53.0	3.60	0.0 4.09	0.0	0.0	0.0	5011
1216	35.3	3.80	0.0	0.0	0.0	0.0	2011
1217	9.3	3.80	0.0	0.0	0.0	0.0	5011
1218	20.2		0.0	2.36	0.0	0.0	1011
1219	51.5	3.70	3.10	0.0	0.0	0.0	30 11
1220	42.5	3.90	0.0	0.0	0.0	0.0	20 1 1
1221	41.6	3.80	0.0	0.0	0.0	0.0	5011
- <del></del> •	. • •		V • V	0.1.	0.0	0.0	5011

## MATSUSHIRO, JAPAN

EVENT NO.	DISTANCE (DEGREES)	MB	MS T=20SEC	MS T=30SEC	MS T=40SEC	LO/LR RATIO	COMMENT
1222	11.2	3.70	2.65	2.35	0.0	1.05	1011
1223	23.2	5.10	0.0	0.0	3.14	0.0	1011
1224	51.5	3.80	0.0	0.0	0.0	0.0	3011
1225	70.1	3.60	3.73	0.0	0.0	0.0	2011
1226	23.9	3.70	3.19	2.58	0.0	0.0	1011
1227	45.4	4.70	3.60	2.73	0.0	3.00	1011
1228	52.6	3.70	0.0	0.0	0.0	0.0	3011
1229	20.2	4.10	2.72	2.39	0.0	0.0	1011
1230	11.2	3.50	0.0	0.0	0.0	0.0	5011
1231	56.3	5.10	0.0	0.0	0.0	0.0	5011
1232	19.8	5.60	0.0	3.88	0.0	0.0	1011
1233	9.9	3.20	0.0	2.31	0.0	0.0	1011
1234	28.9	3.40	0.0	0.0	0.0	0.0	2011
1235	9.9	3.60	0.0	0.0	0.0	0.0	2011
1258	8.8	3.90	0.0	0.0	0.0	0.0	5011
1259	17.4	4.00	0.0	3.20	2.56	0.0	1011
1260	25.6	4.80	0.0	3.83	3.54	2.26	1011
1261	25.9	3.50	0.0	0.0	0.0	0.0	3011
1262	24.8	3.70	0.0	0.0	0.0	0.0	5011
1268	53.3	5.30	0.0	0.0	0.0	0.0	2011
1269	50.5	5.30	0.0	0.0	0.0	0.0	4011
1270	53.2	6.80	5.59	0.0	0.0	0.23	1011
1275	57.4	4.80	0.0	0.0	0.0	0.0	5011
1276	53.9	6.90	5.84	5.29	0.0	2.37	1011
1277	54.2	4.20	0.0	0.0	0.0	0.0	2011
1278	54.3	4.40	0.0	0.0	0.0	0.0	5011
1279	54.5	4.80	3.94	3.48	0.0	0.0	10 1 1
1280	43.9	6.00	0.0	3.84	0.0	1.15	1011
				• • • •	2 6 0		1011

APPENDIX III-A

NETWORK RAYLEIGH WAVE MAGNITUDES (M<sub>s</sub>)

			VLPE		VLPE, NCFSAR &	ALPA
EV. NO.	MB	N	AVE MS	SIG		SIG
1	4.1	1	3.85	0.0	1 3.85	0.0
3	4.0				2 3.11	0.49
5	4.2				1 2.50	0.0
6	5.2	2	4.18	0.05	4 4.18	0.04
7	4.8	2	3.74	0.10	4 3.71 (	0.20
10	4.3					0.29
11	4.8				1 3.90	0.0
13	4.6	2	4.35	0.25	3 4.53 (	0.40
14	3.9	2	4.15	0.07		0.07
16	4.5				1 3.40	0.0
17	4.C	1	3.17	0.0	2 2.88	0.28
18	4.5				1 3.00	0.0
19	4.0	2	3.97	0.08	2 3.97	80.0
20	3.9				1 3.20	0.0
21	4.7	2	3.37	0.14	3 3.38	0.14
22	4.7	1	3.65	0.0	2 3.82	0.18
23	5.2	2	3.28	0.14	3 3.39	0.23
25	4.2	1	2.81	0.0	1 2.81	0.0
26	4.7	5	6.07	0.35	5 6.07	0.35
27	4.6	1	4.76	0.0	1 4.76	0.0
29	4.3	1	3.56	0.0	2 3.50	0.06
30	3.8	1	3.69	0.0	1 3.69	0.0
31	5.0	5	4.60	0.78	7 4.44 (	0.72
34	4.0	1	3.93	0.0		0.0
35	4.4	2	4.19	0.07	2 4.19 ( 5 3.95	0.07
36	4.9	3	3.84	0.29	5 3.95	0.26
37	4.8	4	4.26	0.15		0.12
38	4.0	5	4.09	0.34		0.34
39	5.3	4	5.11	0.21		0.19
40	3.9	.3	3.63	0.14	5 3.44	0.28
41	5.1				1 3.70	0.0
43	4.7	2	3.38	0.19	3 3.46	0.23
46	3.8					0.0
43	4.1					0.0
50	4.9	2		0.11		0.36
52	4.8	1	3.35	0.0		0.33
54	4.2					0.0
55	4.4					0.0
58	4.0					0.0
59	4.6				1 3.62	0.0
60	4.2	1	3.37	0.0		0.06
61	4.8	1	4.03	0.0		0.0
62	4.5	1	3.96	0.0		0.0
6.8	4.0	1	3.18	0.0		0.24
71	3.8				1 3.09	0.0

			VIDE		VLPF, NORSAR	S ALPA
nu 110	MP	N	VLPF AVE MS	SIG	N AVE MS	SIG
PV.NO.	4.4	14	K + C 113	51,	1 4.00	0.0
72 73	4.1	1	4.17	0.0	3 4.02	0.14
76	4.4	•	7.17	0.0	1 2.90	0.0
78	3.8	1	3.19	0.0	1 3.19	0.0
80	3.9	•	3. 12	•	1 3.10	0.0
81	3.9	2	3.83	0.13	3 3.96	0.25
87	4.6	3	3.54	0.12	4 3.48	0.15
88	5.1	3	4.61	0.28	4.54	0.27
89	4.5	3	3.97	0.43	4.00	0.36
90	4.5	4	3.95	0.62	5 3.90	0.55
91	4.2	•			2 3.26	0.14
92	4.8	1	3.33	0.0	1 3.33	0.0
93	4.8	1	3.53	0.0	1 3.53	0.0
94	4.4	4	3.56	0.31	5 3.53	0.28
95	5.2	3	3.86	0.30	3 3.86	0.30
96	4.5	2	3.31	0.29	2 3.31	0.29
97	4.1	5	3.38	0.41	6 3.36	0.37
99	4.3	2	3.38	0.22	3 3.24	0.34
99	4.1	1	2.89	0.0	3 2.R1	0.18
100	3.6	2	2.77	0.01	2 2.71	0.01
102	3.7				1 2.30	0.0
103	4.0	1	3.20	0.0	2 3.00	0.20
104	4.3	4	3.55	0.22	5 3.48	0.25
105	4.2	5	3.68	0.18	7 3.60	0.20
106	4.4	3	3.28	0.13	4 3.23	C. 14
111	4.8	2	3.90	0.40	3 3.73	0.51
112	5.7	5	4.95	0.34	5 4.95	0.34
113	4.3				1 2.50	0.0
114	4.9	1	3.93	0.0	1 3.93	0.0
117	4.5	2	3.70	0.02	2 3.70	0.02
118	3.9				1 3.10	0.0
119	4.1				1 3.20	0.0
120	4.9	2	4.41	0.11	3 4.34	0.16
121	4.3	1	2.63	0.0	2 2.93	0.20
123	4.6	1	4.04	0.0	3 3.95	0.08
125	4.5	1	3.44	0.0	2 3.32	0.12
126	3.9	1	3.82	0.0	2 3.81	0.01
127	4.1				1 3.00	0.0
128	4.5	_		0 0	1 2.90 2 3.86	0.0
129	4.8	1	3.72	0.0		0.14
130	3.7	_	2 04	0 0	1 2.54 3 3.58	0.38
131	4.7	1	3.81	0.0	1 2.60	0.0
132	4.0	4	0.43	0.0	1 4.12	0.0
133	5.2	1	4.12		3 4.83	0.13
134	5.4	3	4.83	0.13	1 3.20	0.0
137	3.9				1 J 4 4 ''	<b>3. 0</b>

			VLPE		VLPE, NORSAR & ALP	A
EV. NO.	MB	N	AVF MS	SIG	N AVE MS SIG	
138	4.1				1 3.20 0.0	
139	4.8	1	4.02	0.0	3 3.83 0.1	
140	4 , 0	1	3.64	0.0	1 3.64 0.0	
141	5.3	2	3.98	0.15	2 3.98 0.1	
143	3.4	2	3.52	0.31	3 3.22 0.6	
144	4.0	1	3.30	0.0	2 3.25 0.0	
145	4.8	1	3.77	0.0	3 3.75 0.2	
146	4.7	2	3.58	0.13	4 3.65 0.1	
147	4.9	3	3.53	0.42	5 3.60 0.3	
148	3.7				1 2.37 0.0	
156	5.0	3	4.39	0.42	4 4.52 0.4	
164	4.0				2 2.98 0.3	
165	4.9	3	4.17	0.35	5 4.28 0.3	
167	4.9			-	1 3.50 0.0	
169	3.8	1	3.13	0.0	2 2.88 0.2	
171	4.7	2	3.24	0.69	3 3.46 0.7	
172	5.3	3	4.72	0.85	3 4.72 0.8	
175	4.9	3	4.08	0.26	4 4.04 0.2	
179	4.4	2	3.19	0.05	3 3.09 0.1	
181	4.5				1 3.10 0.0	
183	4.2				1 2.80 0.0	
186	3.9	2	2.75	0.39	2 2.75 0.3	
192	3.8	1	3.03	0.0	1 3.03 0.0	
193	4.4	2	3.33	0.56	3 3.52 0.6	
200	4.4	1	4.11	0.0	1 4.11 0.0	
205	3.6	2	3.67	0.41	3 3.56 0.4	
208	4.1	1	3.32	0.0	1 3.32 0.0	
210	4.0				1 2.70 0.0	
214	4.0	1	3.76	0.0	1 3.76 0.0	
218	3.7	1	3.26	0.0	1 3.26 0.0	
223	15.3	1	3.58	0.0	1 3.58 0.0	
224	4.0	1	3.32	0.0	1 3.32 0.0	
232	4.4	1	2.68	0.0	2 3.04 0.3	
233	4.5				1 3.80 0.0	
235	4.5		•		1 3.90 0.0	
236	4.4				1 3.43 0.0	
237	3.6	1	3.14	0.0	1 3.14 0.0	
241	3.9	1	2.93	0.0	1 2.93 0.0	
255	4.6	1	3.77	0.0	2 3.73 0.0	
256	3.5	2	3.38	0.05.	3 3.22 0.2	
261	3.7			2	1 2.80 0.0	
262	4.9	2	4.11	0.19	2 4.11 0.1	
264	3.8	1	3.25	0.0	1 3.25 0.0	
266	3.6	1	3.31	0.0	2 3.29 0.0	
278	5.4	2	4.73	0.02	2 4.73 0.0	
281	5.3	1	3.64	0.0	2 3.77 0.1	
						=

			VLPE		V I. P	E, NORSAR 8	. AT.PA
EV.NO.	MB	N	AVE MS	SIG	N	AVE MS	SIG
286	4.5	2	4.34	0.68	2	4.34	0.68
289	3.6	í	3.42	0.0	î	3.42	0.0
290	3.5	i	3.83	0.0	i	3.83	0.0
292	5.2	2	3.83	0.17	4	4.04	0.34
	5.2	4	4.46	0.44	6	4.53	0.37
294		1	2.54	0.0	1	2.54	0.0
296	3.5				2	3.30	0.40
298	3.6	1	3.71	0.0	1		0.40
299	3.6	1	3.20	0.0		3.20	
300	4.7	2	3.22	0.26	4	3.30	0.25
303	3.9	_	2.45	0.05	1	2.7C	0.0
308	3.4	3	3.15	0.25	3	3.15	0.25
310	3.9	_			1	3.30	0.0
311	3.6	3	3.64	0.52	3	3.64	0.52
312	3.7	1	3.62	0.0	3	3.19	0.38
314	3.8				2	3.09	0.10
315	4.1	1	3.03	0.0	1	3.03	0.0
316	3.8	1	4.18	0.0	1	4.18	0.0
320	3.9	1	4.27	0.0	3	3.42	0.74
321	3.7	1	3.77	0.0	2	3.63	0.14
322	4.3				1	3.20	0.0
323	5.0	3	4.34	0.09	4	4.43	0.19
324	4.2	1	3.81	0.0	3	3.22	0.61
325	4.2				1	2.60	0.0
326	4.0				2	2.89	0.11
327	3.4	1	3.38	0.0	1	3.38	0.0
328	3.5	1	3.49	0.0	1	3.49	0.0
329	4.1	•		., • •	i	2.50	0.0
330	3.5	1	3.83	0.0	2	3.46	0.37
331	4.3	•	5 6 6 5	0.0	2	3.02	0.07
332	4.2	2	3.88	0.07	3	3.79	0.18
333	3.9	2.	J. CO	0.07	1	2.80	0.0
334	4.8	1	3.27	0.0	2	3.38	0.11
334	4.5	3	3.37	0.21	4	3.28	0.25
338	4.7	2	3.49	0.21	3	3.63	0.23
						5.10	
341	5.4	4	5.10	0.54	4		0.54
342	4.9	2	4.50	0.13	2	4.50	0.13
343	4.9	2	3.93	0.32	3	4.12	0.46
344	4.1				1	2.50	0.0
345	4.3	-	2 62	0 25	1	3.70	0.0
346	4.7	3	3.63	0.35	3	3.63	0.35
347	4.5	1	4.22	0.0	1	4.22	0.0
348	4.7	-			1	3.90	0.0
349	4.4	1	4.05	0.0	1	4.05	0.0
350	4.9	4	3.61	0.74	5	3.69	0.67
351	4.9	5	4.49	0.43	5	4.49	0.43
<b>3</b> 52	4.0	1	3.88	0.0	1	3.88	0.0

			VLPE		VLPE,	NORSAR 8	ALPA
EV.NO.	MB	N	AVE MS	SIG	N	AVE MS	SIG
354	4.5	3	3.57	0.19	4	3.63	0.19
355	3.7				4	2.80	0.0
356	4.0				1	3.00	0.0
357	3.3				1	2.70	0.0
361	5.4	2	4.72	0.31	4	4.72	0.25
362	5.1	3	4.69	0.51	3	4.69	0.51
364	5.1	1	3.81	0.0	3	4.02	0.18
365	3.8	1	3.29	0.0	2	2.95	0.34
366	4.7	1	3.41	0.0	2	3.55	0.14
367	5.3				2	3.93	0.03
369	3.5	1	3.85	0.0	1	3.85	0.0
371	4.5	3	4.14	0.09	4	4.10	0.10
372	4.3	1	3.01	0.0	2	2.90	0.11
373	4.9	2	3.96	0.30	3	4.04	0.33
374	3.5	1	3.50	0.0	1	3.50	0.0
375	3.3	1	2.93	0.0	1	2.93	0.0
376	4.1				1	2.67	0.0
379	3.7				1	3.00	0.0
380	4.3	1	2.78	0.0	2	2.79	0.01
381	4.6				1	3.40	0.0
382	4.3	1	3.44	0.0	3	3.61	0.18
385	4.4	2	2.80	0.20	3	2.74	0.24
386	5.0	2.	4.15	0.42	3	4.18	0.42
388	4.5	2	3.24	0.30	3	3.39	0.40
389	4.1				1	2.90	0.0
390	4.0	1	3.46	0.0	1	3.46	0.0
391	3.7				1	2.7C	0.0
392	3.6	1	3.85	0.0	2	3.42	0.43
393	4.3	1	3.37	0.0	2	3.10	0.27
395	4.1				1	3.30	0.0
396	4.3	1	3.03	0.0	3	2.76	0.24
399	4.5	1	3.93	0.0	1	3.93	0.0
400	3.7				1	2.80	0.0
401	3.4				1	2.40	0.0
402	4.6	2	3.28	0.45	4	3.23	0.37
405	4.5	2	3.34	0.06	3	3.17	0.31
409	3.7				1	2.50	0.0
410	4.7	4	3.92	0.36	6	4.00	0.34
411	4.1	2	3.81	0.31	4	3.63	0.35
412	5.0	4	4.35	0.25	6	4.37	0.32
414	3.7	1	3.29	0.0	2	3.09	0.20
415	4.0	1	3.03	0.0	1	3.03	0.0
416	5.5	4	4.20	0.47	6	4.30	0.47
417	3.8				1	2.81	0.0
418	4.4	1	3.93	0.0	3	3.88	0.06
419	5.2	3	3.99	0.62	5	3.99	0.51

			VLPF		VLPF	NORSAR	E ALPA
EV.NO.	MB	N	AVE MS	SIG	N	AVE MS	SIG
421	5.1	3	4.31	0.32	4	4.33	0.27
422	4.6	2	3.46	0.45	3	3.18	0.68
423	3.5				1	3.00	0.0
424	4.2				1	2.80	0.0
427	5.6	3	4.89	0.18	4	4.82	0.21
428	3.9				2	2.60	0.19
429	3.9	1	4.08	0.0	1	4.C8	0.0
430	3.7				i	2.40	0.0
431	4.6	1	3.73	0.0	2	3.81	0.09
432	4.6	1	3.94	0.0	1	3.94	0.0
433	4.9	3	4.23	0.31	Ś	4.23	0.45
434	4.0	1.00		V • J ·	1	2.80	
435	3.4				1		0.0
436	5.4	1	4.83	0.0	3	2.74	0.0
437	4.6	<u> </u>	3.62	0.0		4.86	0.07
438	5.0	3	3.87		2	3.46	0.16
440	4.0	3	3 • C /	0.28	4	3.90	0.24
441	4.0	1	3.48	0.0	1	2.80	0.0
442	5.1	1			1	3.48	0.0
444	3.4	•	3.86	0.0	2	3.83	0.03
446		•	2 40	0 0	1	2.80	0.0
447	4.4	1	3.40	0.0	3	3.19	0.22
	3.6	2	3 04		1	2.70	0.0
449	4.6	3	3.84	0.23	5	3.87	0.17
451	4.3	1	3.70	0.0	3	3.32	0.33
452	3.4	1	3.67	0.0	1	3.67	0.0
453	4.0	1	3.27	0.0	3	3.30	0.09
454	4.7	1	3.10	0.0	2	2.98	0.11
455	4.1				1	2.80	0.0
457	3.1	1	2.70	0.0	2	2.75	0.05
458	4.3	1	3.67	0.0	1	3.67	0.0
460	3.7				1	2.70	0.0
461	5.0	3	4.59	0.09	3	4.59	0.09
462	3.7				1	3.70	C.0
463	4.7				1	2.7C	0.0
464	4.9	3	4.02	0.06	3	4.02	0.06
465	4.2				1	3.10	0.0
466	4.9				1	2.50	0.0
467	4.1	2	3.71	0.09	2	3.71	0.09
469	4.1				1	3.03	0.0
470	4.7				2	3.57	0.13
472	5.2	4	3.95	0.13	5	3.96	0.12
473	3.6			_	1	2.75	0.0
474	3.7				i	2.80	0.0
475	4.7	2	3.87	0.04	3	3.85	0.06
476	5.2	4	4.05	0.23	5	4.08	0.21
479	4.1	2	3.33	0.04	2	3.33	0.04
				-	•		.,,

			ALPE		VLPE, NORSAR & A	LPA
EV.NO.	MB	N	AVE MS	SIG		SIG
482	4.2	2	3.67	0.02		0.16
483	3.7					0.0
485	3.8				_	26
487	4.4				_	16
488	3.9					0.0
490	3.9					0.0
491	3.8					0.0
492	5.1	4	3.93	0.65		63
493	4.4	1	3.12	0.0		), 25
494	3.7				-	26
496	5.2	3	4.20	0.48	_	38
497	4.9	3	4.31	0.22	_	16
498	4.7					. 16
499	4.6	5	3.67	0.40		.51
501	4.2					0.04
502	3.9	2	3.35	0.27		27
503	4.2	1	3.94	0.0		0.0
504	3.9				_	0.0
505	5.3	4	4.13	0.64		.49
507	3.4				_	0.0
508	4.1	1	3.87	0.0		0.0
509	4.5		•	-		0.0
<b>51</b> 0	4.0					.0
511	3.7					.0
512	4.0	1	2.63	0.0		.09
513	5.0	2	4.02	0.05		.05
517	3.9	1	3.83	0.0		.35
<b>51</b> 8	4.3					.0
520	4.8					.0
521	4.6	1	3.42	0.0		. 34
522	5.5	4		0.14	_	. 18
523	4.7					.09
524	3.9				_	• 0
527	4.4	1	2.99	0.0		.05
528	4.0					.0
529	4.8					.03
530	4.5	1	3.55	0.0	_	.0
532	4.0					.0
534	5.1	2	4.32	0.17		.20
535	5.1	2	4.31	0.18		. 18
538	3.8		-			. 18
539	4.8	2	3.56	0.39		. 41
541	5.1	3	4.21	0.50		.50
543	4.9	2	3.35	0.36		. 39
546	4.8	1	3.61	0.0	_	.07
547	4.6	1	4.44	0.0		.0
						• •

			VLPE		VLPE.	NORSAR	& ALPA
EV. NO.	MB	N	AVE MS	SIG	N	AVE MS	SIG
548	3.6				1	2.70	0.0
549	3.7	1	3.27	0.0	2	3.16	0.11
553	3.8				ī	2.70	0.0
554	4.5	1	3.66	0.0	2	3.43	0.0
555	3.4	i	3.44	0.0	1		
558	5.6	5	4.92	0.46	5	3.44	0.0
559	5.0	5	5.03		5	4.92	0.46
561	4.3	3		0.46		5.03	0.45
562	4.5	1	3.23	0.46	4	3.27	0.39
563			3.40	0.0	3	3.25	0.27
	4.0	1	3.86	0.0	3	3.36	0.45
564	3.9	1	3.51	0.0	1	3.51	0.0
565	5.3	4	4.37	0.44	5	4.38	0.38
566	4.5	3	3.73	0.41	5	3.74	0.30
567	4.8				1	3.60	0.0
570	4.3				1	3.30	0.0
571	4.0	1	3.01	0.0	2	3.15	0.14
573	5.7	2	6.69	0.45	3	6.56	0.51
578	4.7	1	3.77	0.0	1	3.77	0.0
579	4.9	2	4.33	0.24	ż	4.33	0.24
581	3.8	_		<b>702</b> 7	ī	2.66	
582	4.5	1	3.17	0.0	i		0.0
583	5.5	i	3.89	0.0	i	3.17	0.0
585	4.0	•	3.03	0.0		3.89	0.0
586	5.0	1	2 04	0 0	1	3.00	0.0
587			3.81	0.0	2	3.90	0.10
	4.0	4	4. 7.0		1	3.10	0.0
589	4.2	1	4.70	0.0	1	4.70	0.0
591	4.5	2	3.77	0.22	2	3.77	0.22
592	4.0	1	2.97	0.0	2	2.88	0.09
594	4.7	2	3.94	0.06	2	3.94	0.06
596	5.1	1	4.11	0.0	1	4.11	0.0
598	5.5	1	4.44	0.0	3	4.44	0.14
601	4.4	2	3.61	0.54	2	3.61	0.54
605	5.1	3	4.26	0.01	4 -	4.45	0.37
606	4.8	3	4.52	0.62	5	4.34	0.50
608	4.5	1	4.31	0.0	2	3.75	0.56
610	5.2	3	4.10	0.09	3	4.10	0.09
611	5.0	3	4.27	0.09	3	4.27	
612	4.0	1	3.01	0.0	1		0.09
614	5.3	3	4.53	0.52	3	3.01	0.0
6 17	4.4	-	4.33	0.32		4.53	0.52
618	4.1				1	3.50	0.0
619	4.7				1	3.50	0.0
621					1	3.00	0.0
	3.6				1	3.30	0.0
625	3.4	2	2 05		1	2.46	0.0
627	3.5	2	3.23	0.24	3	3.15	0.27
628	3.6				2	2.76	0 - 14

			VLPE		VLPE	, NORSAR	& ALPA
EV. NC.	#3	- N	AVE MS	SIG	N	AVE MS	SIG
629	3.6	1 1	3.15	0.0	1	3.15	0.0
630	4.3	1	3.60	0.0	3	3.34	0.31
632	4.5				1	3.30	0.0
633	3.6				1	2.47	0.0
639	3.6				1	3.00	0.0
640	3.9				1 .	3.80	0.0
641	4.0	1	3.55	0.0	1 1	3.55	0.0
642	4.8	1	3.83	0.0	3	3.84	0.04
643	4.0	2	3.57	0.18	3	3.31	0.43
644	5.1				2	3.54	0.05
645	5.1				ī	3.60	0.0
646	3.7				i	2.61	0.0
648	3.6				1	2.60	0.0
649	4.3	2	3.52	0.07	3	3.55	0.08
650	3.5	1	3. 16	0.0	1	3.16	0.0
651	4.9	2	4.16	0.16	ų į	4.08	0.29
653	5.2	4	4.11	0.16	6	4.11	
655	4.0	1	3.33	0.0	ì	3.33	0.14
656	4.3	3	3.35	0.14	ų į	3.51	0.34
658	4.5				i	3.40	
659	4.0	1	2.55	0.0	2	2.52	0.0
660	4.1	1	3.34	0.0	2	3.22	0.02
661	5.2	3	4.40	0.16	4	4.34	0.12
562	4.6				- 1	3.00	0.17
664	3.7				2		0.0
665	4.0				2	2.66	0.34
570	4.0				2	2.58	0.18
671	3.6	1	3.68	0.0	1	2.51	0.02
673	3.8	i	2.67	0.0	i	3.66	0.0
676	4.8	i	4.47	0.0		2.67	0.0
677	3.6	1	3.39	0.0	2	4.68	0.22
678	4.2	2	4.41	0.24	2	3.04	0.35
680	5.2	i	4.12	0.0	3	3.97	0.81
681	3.7	1	3.23	0.0	1	4.12	0.0
683	4.4	3	3.39		1	3.23	0.0
684	3.6	2	3.54	0.40	4	3.39	0.33
685	3.7	1	3. 12	0.10	3	3.26	0.50
686	4.3		3. 12	0.0	2	3.11	0.01
687	5.5	3	11 02		1	2.00	0.0
688	4.2		4.82	0.21	5	4.89	0.19
689	5.5	,	11 57	0 2:	2	3.32	0.18
690	5.5	3	4.57	0.21	3	4.57	0.21
691	4.6	4	4.45	0.13	4	4.45	0.13
692	4.3	1	3.39	0.0	1	3.39	0.0
693	5.5	3	4.48	0.23	3 2	4.48	0.23
696	4.4				2	4.55	0.05
030	4.4				1	2.80	0.0

			VLPE		utne	NORCAR	
EV.NO.	MB	N	AVE MS	SIG	N N	NORSAR S	S ALPA SIG
697	4.4	3	4.56	0.61	4	4.42	
698	4.8	í	3.93	0.0	3		0.57
700	4.7	•	3. 7.7	() • ()		3.93	0.27
702	5.5	5	5.24	0.23		2.80	0.0
703	3.8	í			7	5.22	0.26
704	5.2	3	2.79	0.0	1	2.79	0.0
707	4.3	3	4.69	0.49	4	4.49	0.56
707	4.5	2	2 02	0 43	1	2.50	0.0
		2	3.82	0.13	4	3. R3	0.23
709	4.1		3 00		1	3.40	0.0
710	4.3	4	3.92	0.22	6	3.83	0.24
711	5.3	3	4.52	0.24	4	4.56	0.22
712	4.3	1	3.50	0.0	1	3.50	0.0
713	4.5	2	4.12	0.49	2	4.12	0.49
716	5.5	4	4.87	0.65	5	4.81	0.59
<b>71</b> 8	4.7	2	4.27	0.19	2	4.27	0.19
721	3.8				2	2.76	0.34
722	3.8				1	3.00	0.0
723	4.8	1	4.84	0.0	2	4.72	0.12
724	3.7				1	3.30	0.0
725	3.9				1	3.40	0.0
726	4.1	2	4.05	0.32	4	4.01	0.50
728	4.5	1	2.64	0.0	2	2.77	0.13
729	3.9				1	2.60	0.0
730	3.8				1	2.30	0.0
731	3.9				1	2.80	0.0
732	4.4	4	3.68	0.34	5	3.71	
734	4.3	1	3.52	0.0	1	3.52	0.30
736	3.7	•	3.72	(/ • U	i		0.0
737	4.6	4	3.70	0.17		3.30	0.0
739	4.0	~	3. 70	0.17	5	3.61	0.25
741	4.8	1	3.46	0 0	2	3.07	0.32
742	4.0	•	3.40	0.0	3	3.35	0.13
743	4.0	2	2 70	0.61	1	3.00	0.0
744	5.7	5	3.78	0.61	4 -	3.48	0.61
			5.45	0.27	7	5.43	0.37
747	4.1	1	4.29	0.0	1	4.29	$\mathbf{C} \cdot \mathbf{O}$
748	4.0	2	3.40	0.41	2	3.40	0.41
750	4.9	1	3.72	0.0	1	3.72	$\mathbf{c} \cdot \mathbf{o}$
751	4.3	2	3.76	0.21	3	3.61	0.34
752	5.4	1	3.77	0.0	2	3.98	0.22
758	5.1	3	4.23	0.27	5	4.22	0.23
759	4.0				1	2.70	C.C
760	5.6	2	3.86	0.09	4	3.78	0.15
761	5.2	5	3.74	0.10	7	3.78	0.13
762	4.9	3	4.11	0.35	5	3.98	0.31
763	3.9				1	2.40	0.0
764	4.7	2	3.62	0.14	4	3.72	0.22

			VLPF		VLPE	NORSAR	& ALPA
EV.NO.	MB	N	AVE MS	SIG	N	AVE MS	SIG
765	4.8	2	3.85	0.19	3	3.74	0.28
767	4.4				1	3.00	0.0
771	4.4	1	3.29	0.0	1	3.29	0.0
773	3.9	1	2.98	0.0	1	2.98	0.0
774	4.7	1	2.86	0.0	i	2.86	0.0
775	5.4	5	5.15	0.22	6	5.13	0.20
776	4.8	4	3.72	0.24	5	3.71	0.21
778	5.1	3	4.07	0.36	5	4.12	0.34
779	3.6				1	3.56	0.0
781	5.0	2	4.01	0.16	4	4.03	0.18
783	4.4	1	3.59	0.0	2	3.35	0.24
785	5.3	3	4.63	0.26	5	4.59	0.36
786	4.3	-			1	3.18	0.0
790	4.7	3	3.95	0.40	5	3.89	0.35
791	3.7				1	4.48	0.0
792	4.5				i	3.55	0.0
799	6.0	4	5.81	0.16	6	5.73	0.20
802	4.8	2	4.76	0.02	3	4.26	0.88
807	4.3	-			1	4.34	0.0
812	4.3				i	2.76	0.0
813	4.8	4	4.09	0.21	6	4.06	0.24
814	4.1	1	3.42	0.0	2	3.02	0.40
815	4.7		_ •		ī	2.97	0.0
818	5.7	3	4.54	0.24	3	4.54	0.24
820	4.2				1	3.60	0.0
821	4.6	1	3.29	0.0	2	3.13	0.16
823	4.3	1	3.94	0.0	3	3.79	0.13
825	4.7	5	4.21	0.22	5	4.21	0.22
826	4.7		-		1	3.19	0.0
827	4.4	1	4.05	0.0	3	3.61	0.43
828	5.7	5	5.75	0.27	7	5.73	0.25
836	4.6	2	3.56	0.15	2	3.56	0.15
837	4.9	5	3.72	0.35	6	3.67	0.34
839	4.0	4	3.81	0.23	4	3.81	0.23
840	3.8	1	3.99	0.0	1	3.99	0.0
842	4.7	3	3.91	0.16	3	3.91	0.16
843	3.8		-		1	2.34	0.0
844	4.6	4	4.27	0.18	6	4.21	0.27
845	4.3				2	3.09	0.09
846	4.1				2	2.89	0.17
850	4.1				1	2.59	0.0
851	4.1				1	2.73	0.0
852	4.1				1	2.01	0.0
854	3.8				i	3.48	0.0
856	3.7	2	2.96	0.02	3	3.04	0.15
857	4.8	2	3.77	C.10	3	3.64	0.25
					_		

			VLPE		VIDE MODELD & ALL	) B
EV. NO.	MB	N	AVE MS	CIC	VLPE, NOBSAR & ALE	
858	4.7			SIG	N AVE MS SIG	
		4	3.66	0.32	5 3.64 0.2	
859	5.7	6	5.22	0.12	8 5.23 0.1	
861	3.6	4			1 3.47 0.0	
862	4.6	1	2.94	0.0	1 2.94 0.0	
863	3.6	1	3.61	0.0	2 3.52 0.0	
866	3.5	_	_		1 4.99 0.0	
867	4.1	3	3.43	0.10	4 3.37 0.1	
868	4.3	1	3.53	0.0	1 3.53 0.0	
869	4.3				1 3.38 0.0	)
8 <b>7</b> 0	4.1	1	4.27	0.0	2 3.84 0.4 3 3.44 0.3	13
873	<b>4.5</b>	2	3.61	0.09	3 3.44 0.3	32
874	4.4	1	3.27	0.0	2 3.32 0.0	)5
875	4.9	4	4.22	0.55	6 4.33 0.5	53
876	4.1				1 4.10 0.0	)
878	3.5				1 3.40 0.0	
881	5.2	5	3.80	0.22	7 3.76 0.2	
882	4.1				1 2.41 0.0	
884	5.5	6	4.50	0.20	8 4.52 0.2	
885	4.8		•		1 3.51 0.0	
887	4.7				1 3.43 0.0	
890	5.3	6	4.98	0.34	8 4.95 0.3	
893	4.7	3	3.55	0.21	4 3.46 0.2	
895	4.9	1	4.06	0.0	2 4.09 0.0	
896	4.8	•	4.00	0.0	1 3.89 0.0	
897	5.0	5	3.77	0.64	7 3.80 0.5	
898	4.4	2	2.96	0.65	4 3.30 0.7	
899	4.3	L	2.30	0.03		
903	3.9	1	3.12	0.0		
904	3.9	i	3. 37	0.0		
908	5.1	2	3.91			
909	4.7	1		0.11	4 3.87 0.2	
911	5.1	4	3.03	0.0	3 3.13 0.3	
		4	4.25	0.28	5 4.29 0.2	
912	4.5				1 3.56 0.0	
913	3.7				1 3.37 0.0	
914	4.6				2 3.59 0.0	
917	3.8	1	3.22	C.O	1 3.22 0.0	
918	5.0	5	4.10	0.20	5 4.10 0.2	20
924	4.3				1 3.10 0.0	)
925	4.0	1	2 <b>.7</b> 5	0.0	1 2.75 0.0	)
926	4.9	2	3.72	0.43	3 3.55 0.5	52
927	4.6	1	3.83	0.0	3 3.69 0.1	18
929	5.1	4	4.18	0.30	5 4.25 0.3	
932	5.3	2	4.80	0.14	3 4.62 0.3	
933	4.7	1	3.72	0.0	2 3.66 0.0	
934	3.7				1 2.57 0.0	
936	3.8	1	3.40	0.0	1 3.40 0.0	

			ut pr				
EV. NO.	MB	N	VLPE			E, NOFSAR	E ALPA
937	5.2	3	AVE MS	SIG	N	AVE MS	SIG
339	4.3	1	4.22	0.31	5	4.11	0.26
940	5.0	,	3.01	0.0	1	3.01	0.0
941	4.3	1	1 20	0 0	1	3.11	0.0
942	4.5	3	3.25	0.0	2	3.23	0.02
943	4.5	.3	3.72	0.20	4	3.72	0.16
944					1	2.90	0.0
945	3.9				1	3.36	0.0
946	3.6	1	2.14	0.0	1	2.14	0.0
947	4.3	1	3.50	0.0	3	3.44	0.05
950	3.3		• • •		1	2.68	0.0
	4.9	it.	3.96	0.17	5	3.98	0.15
952	3.7	1	3.20	0.0	1	3.20	0.0
954 055	4.9	2	3.83	0.03	4	3.92	0.12
955	4.2				1	3.50	0.0
956	4.5	3	4.37	0.17	5	4.32	0.15
957	4.5	1	3.80	0.0	3	3.89	0.15
959	4.6	2	3.25	0.09	4	3.33	0.14
961	4.3	1	3.68	0.0	3	3.54	0.23
962	4.1	1	2.71	0.0	2	2.89	0.19
963	4.0	1	2.37	0.0	1	2.37	0.0
965	4.9	3	3.83	0.31	5	3.84	0.33
966	5.2	5	4.15	0.20	6	4.14	0.18
968	4.1	1	3.22	0.0	2	3.14	0.18
969	4.3				ī	3.32	0.03
970	3.5				1	2.51	
971	3.5	1	3.52	0.0	i	3.52	0.0
972	4.1	1	3.41	0.0	2	3.40	0.0
973	4.2				2	3.17	0.01
374	5.0	3	3.69	0.50	5		0.06
977	3.5		• ` `	0.50	í	3.75	0.41
978	4.2	3	3.60	0.10	i,	2.79	0.0
980	4.4		,, , ,		1	3.65	0.13
983	4.2	3	3.68	0.50	4	3.39	0.1)
984	6.3	1	6.01	0.0	1	3.79	0.46
1000	5.2			( • ()		6.01	0.0
1006	3.9				1 1	4.43	0.0
1008	5.5	6	4.05	0.43		2.45	0.0
1011	3.9	1	2.97	0.0	8	4.11	0.41
1012	4.5	2	3.26		1	2.97	0.0
1013	4.4	2	J. 20	0.14	3	3.07	0.36
1016	4.6	2.	3.67	0 70	2	3.08	0.44
1017	4.2	7.	J • U /	0.74	3	3.38	0.91
1018	4.7	2.	3 14	0 00	1	3.36	0.0
1021	3.9	۲.	3.14	0.23	2	3.14	0.23
1024	4.1				1	2.94	0.0
1025	4.2	3	3.52	0 03	1	2.92	0.0
	- • ··	,	1. 34	0.03	5	3.38	0.34

			VLPE		VLPE - NC SS	AR & ALPA
EU NO	MB	N	AVE MS	SIG	N AVE	
EV.NO.		5	1.23	0.24	7 4.2	
1029	5.5		3.73	0.10	4 3.6	
1030	4.6	2			3 3.2	
1032	4.6	1	3.28	0.0	2 3.6	
1033	4.6	-	2 05	0 30		
1035	4.6	3	3.45	0.32		
1036	4.4	1	2.88	0.0	1 2.8	
1037	3.7	1	3.35	0.0	1 3.3	
1038	3.9	1	3.33	0.0	2 2.9	
1039	6.1	7	5.53	0.29	9 5.5	
1941	4.0	1	3.43	0.0	3 3.2	
1042	3.7				1 3.0	
1943	3.9	1	3.09	0.0	2 2.8	
1044	3.4	1	3.77	0.0	1 3.1	
1048	4.0				1 2.0	
1050	5.0	3	3.51	0.18	5 3.9	
1052	3.6	1	2.90	0.0	2 2.1	35 0.05
1053	5.0				1 2.	0.0
1054	4.1	1	2.83	0.0	1 2.	
1055	3.6	•			1 2.	
1058	3.5	1	3.95	0.0	1 3.	
1061	4.5	•		.5 • 0	2 3.	
					1 3.	
1063	4.0	c	3.96	0.31	6 4.	
1065	4.6	5		0.0	1 4.	
1066	4.0	1	4.03		3 3.	
1069	3.8	2	3.16	0.00	1 2.	
1070	4,4	-	3 36	0.10		
1071	4.7	3	3.36	0.10		
1072	3.1	1	2.76	0.0		67 0.09
1073	3.7					18 0.0
1074	4.4	1	3.17	0.0		27 0.10
1078	4.1	2	3.23	0.16		22 0.16
1079	3.6	1	2.30	0.0		30 0.0
1080	4.8	5	4.10	0.22		0.34
1081	4.4					54 0.0
1082	4.3	3	3.43	0.22		40 0.20
1083	5.7	8	4.86	0.52	10 4.	91 0.48
1084	4.5	2	3.97	0.02	2 3.	97 0.02
1085	6.1	8	5.46	0.51	10 5.	54 0.43
1087	4.0					78 0.0
1090	4.0					34 0.0
1091	3.7	2	3.21	0.44		21 0.44
1091	4.3	2	3. 29	0.32		25 0.32
	4.1	2	3.29	0.03		22 0.13
1095	3.6	4	3.663	0.0.		13 0.0
1097						93 0.0
1098	3.8					84 0.0
1100	4.4				2.	· · <del>·</del> · · · · · · · · · · · · · · · ·

			VLPE		VLPE, NORSAR & ALE	
EV. NO.	MB	N	AVE MS	SIG	N AVE MS SIG	
1101	3.7	1	2.89	0.0	2 3.01 0.1	
1103	3.8					
1104	4.5	1	3.60	0.0		
1106	5.2	2	3.59	0.02		
1107	4.3	-		0.02		
1108	4.2					
1109	3.9					
1111	4.0					
1112	5.2	3	4.15	0.33		
1114	4.2	2	3.58	0.02	4 4.11 0.2	
1115	4.3	1	2.78	0.02	3 3.49 0.1	
1117	4.7	i	3.31		1 2.78 0.0	
1118	4.6	•	3.31	0.0	1 3.31 0.0	
1120	4.4	1	2 72	0 0	2 3.39 0.1	
1121	4.5	'	3.73	0.0	2 3.35 0.3	
1122	3.9	•	2 05		1 2.73 0.0	
1123	4.8	1 2	2.95	0.0	2 3.03 0.0	9
1124	3.7	2	3.62	0.05	4 3.58 0.1	1
1125		_			1 2.37 0.0	
1127	5.3	5	4.58	0.36	6 4.51 0.3	7
	4.7	1	3.02	0.0	2 2.80 0.2	2
1130	3.9	1	3.16	0.0	1 3.16 0.0	
1131	4.8	1	4.02	0.0	1 4.02 0.0	
1132	5.5	5	5.40	0.40	5 5.40 0.4	0
1134	3.6	2	3.46	0.01	3 3.30 0.2	9
1137	3.8	_			1 2.63 0.0	
1138	4.0	2	3.30	0.07	3 3.32 0.0	
1139	4.1	1	2.85	0.0	3 2.91 0.0	
1140	4.1				1 2.75 0.0	
1141	5.2	5	4.16	0.18	7 4.24 0.2	
1143	5.3	4	5.45	0.27	6 5.43 0.3	
1145	4.4	3	3.38	0.12	5 3.33 0.10	
1147	4.5				2 3.43 0.3	
1148	3.6				1 2.89 0.0	
1149	4.6	1	3.01	0.0	2 2.84 0.1	
1151	4.8	4	3.66	0.39	6 3.59 0.3	
1152	4.7	1	4.71	0.0	1 4.71 0.0	•
1155	4.4	2	4.29	0.03	4 4.38 0.1	2
1156	3.8				1 3.07 0.0	_
1158	5.0	2	4.01	0.13	3 3.82 0.30	6
1160	4.0	1	3.93	0.0	1 3.93 0.0	•
1161	4.3				1 3.16 0.0	
1162	4.2				1 3.42 0.0	
1163	3.8	2	3.42	0.45	2 3.42 0.4!	5
1164	4.8	1	3.77	0.0	3 3.68 0.23	
1165	4.3	4	3.89	0.17	5 3.79 0.2	
1166	5.2	5	4.37	0.65	7 4.41 0.50	
			•	- 5 - 0	7 7.41 0.30	•

			VLPE		VI.PE	NCRS AR	8 ALPA
EV. NO.	MB	N	AVE MS	SIG	N	AVE MS	SIG
<b>116</b> 8	5.3	3	4.18	0.35	5	4.17	0.27
1170	4.1	1	2.82	0.0	1	2.82	0.0
1171	4.0				1	3.72	0.0
1172	5.4	6	4.43	0.58	7	4.54	0.60
1178	4.6	3	4.45	0.18	3	4.45	0.18
1180	5.3	5	4.72	0.24	6	4.66	0.26
1182	5.4	5	5.25	0.28	5	5.25	0.28
1187	4.1	2	3.92	0.05	2	3.92	0.05
1190	4.4	3	3.72	0.26	3	3.72	0.26
1192	4.1	1	3.26	0.0	1	3.26	0.0
1194	4.2	2	3.57	0.15	3	3.40	0.33
1195	3.7	1	2.82	0.0	1	2.82	0.0
1196	4.3	1	3.80	0.0	1	3.80	0.0
1198	4.9	3	4.20	0.07	3	4.20	0.07
1199	4.5	1	3.88	0.0	1	3.88	0.0
1200	4.2	1	3.64	0.0	1	3.64	0.0
1203	3.4	1	4.24	0.0	1	4.24	0.0
1205	4.3	1	3.30	0.0	3	3.45	0.18
1208	4.1	1	3.27	0.0	2	3.27	0.0
1209	3.7	1	2.83	0.0	1	2.83	0.0
1212	4.3				2	2.96	0.12
1213	3.7	1	2.83	0.0	2	2.94	0.11
1217	3.8				1	2.45	0.0
1219	3.7				1	2.76	0.0
1221	3.8				1	2.98	0.0
1222	3.7	1	2.65	0.0	1	2.65	0.0
1223	5.1	6	4.18	0.30	8	4.14	0.27
1226	3.7	1	3 <b>. 1</b> 9	0.0	2	2.99	0.20
1227	4.7	3	3.66	0.17	4	3.74	0.21
1229	4.1	1	2.72	0.0	1	2.72	0.0
1231	5.1	2	3.63	0.26	3	3.73	0.30
1232	5.6	3	5.64	0.87	4	5.53	0.74
1237	4.2				1 -	2.69	0.0
1239	4.4	2	3.86	0.07	3	3.76	0.19
1242	4.0				1	3.07	0.0
1243	4.2	1	2.90	0.0	2	3.15	0.25
1245	3.7				1	2.58	0.0
1247	4.0	1	3.49	0.0	2	2.96	0.53
1248	3.9				1	3.07	0.0
1254	4.6				1	4.02	0.0
1255	3.6	_			1	2.48	0.0
1260	4.8	2	3.88	0.02	3	3.7C	0.32
1261	3.5	1	3.87	0.0	1	3.87	0.0
1263	4.6				2	3.62	0.24

APPENDIX III-B

CONVERSIONS OF VARIOUS  $\rm m_b^{}, \, M_s^{}$  ESTIMATES TO  $\rm m_b^{}$  (NOA) AND  $\rm M_s^{}$  (MARSHALL AND BASHAM, 1972)

bodywave magnitude (m,) reported by NOA

m computed for Canadian network

mb determined by method of Evernden, 1967

20 second period surface wave magnitude (M $_{
m S}$ ) given by  $\left\{\log {
m A/T} + 1.66 \log {
m \Delta}^{
m O}
ight\}$ 

12 second period M<sub>s</sub> II  $M_{s}(12)$ 

12 second period M determined by Gectech  $M_{s}^{G}(12) =$ 

 $m_c = m - 0.25$ 

$$m_c = m_n - 0.25^{-1}$$
 $m_e = m_c - 0.21^{-2}$ 
 $m_e = m_n - 0.46$ 

$$M_s(12) = M_s^{G_s}(12) + 0.18$$
 <sup>4</sup>  $M_s^{G_s}(12) = M_s(20) + 0.43$   $M_s^{G_s}(12) = M_s(20) + 0.43$   $M_s^{G_s}(12) = M_s(20) + 0.06$  <sup>4</sup>  $M_s^{G_s}(12) = M_s(20) + 0.06$  <sup>4</sup>

 $m_e = M_s(20) + 0.37$ 

- 0.83

 $M_{s}(20) = m_{n}$ 

Computed from Basham, 1969 and Lambert and Alexander, 1971

Marshall and Basham, 1972

Lambert and Alexander, 1971

Alternately, we have

P. Controlled San L.

$$m_c = m_n - 0.25$$

 $M_s(20) = 1.36 m_n - 2.53$ 

$$M_s(10) = M_s(20) + 0.75^6 \int_s^{M_s(4)}$$

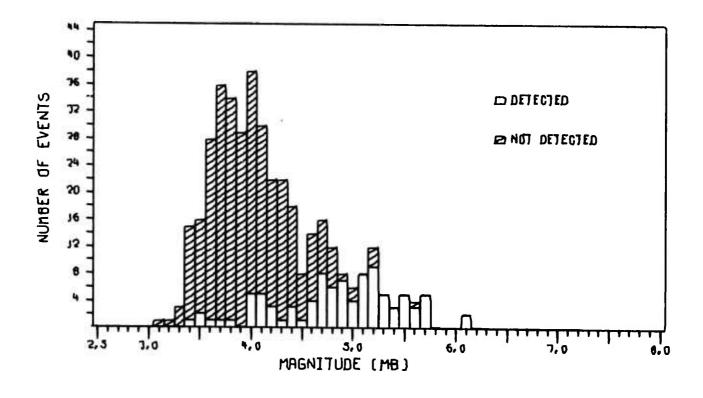
III-B-3

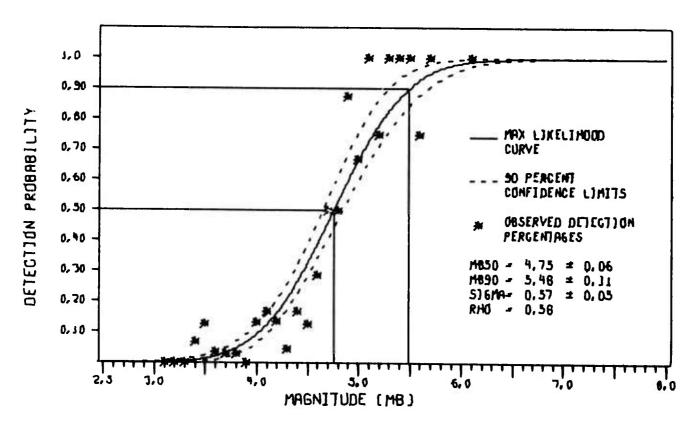
$$M_s(10) = 10$$
 second period  $M_s$ 

5 Basham, 1969

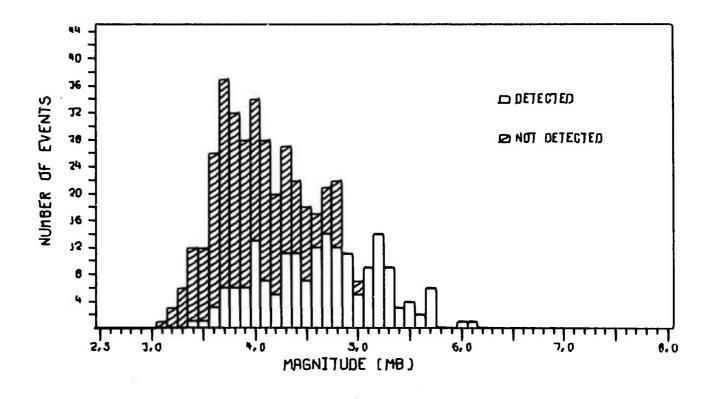
Marshall and Basham, 1972

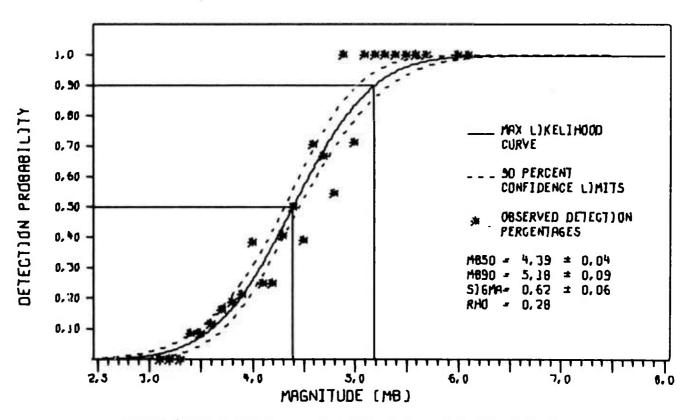
APPENDIX IV-A  $\begin{tabular}{ll} MAXIMUM LIKELIHOOD DETECTION \\ THRESHOLDS BASED ON $m_b$ FOR \\ ELEVEN VLPE STATIONS \\ \end{tabular}$ 



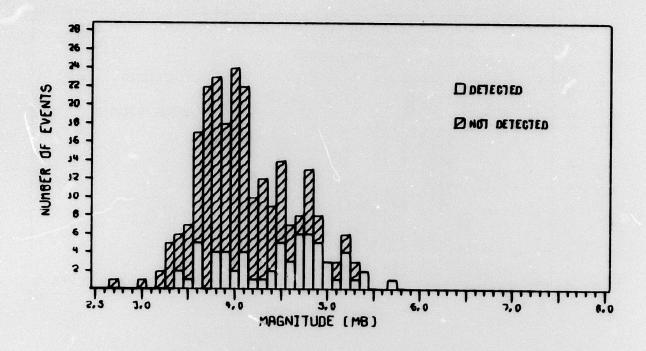


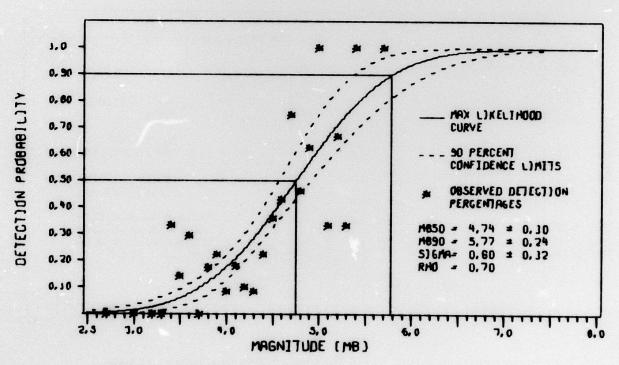
DETECTION STATISTICS FOR VLPE STATION 1 (CTA)



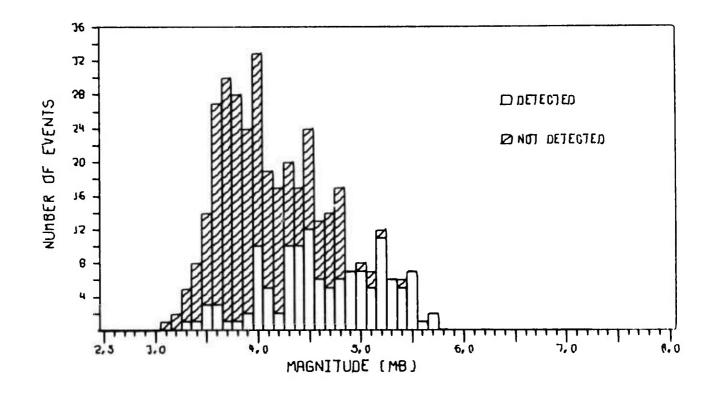


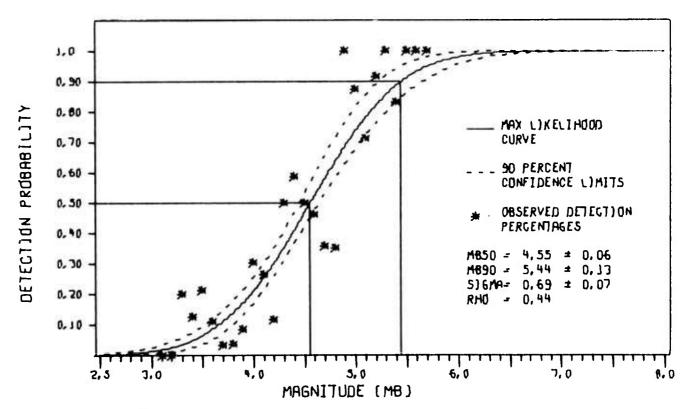
DETECTION STATISTICS FOR VLPE STATION 2 (CHG)



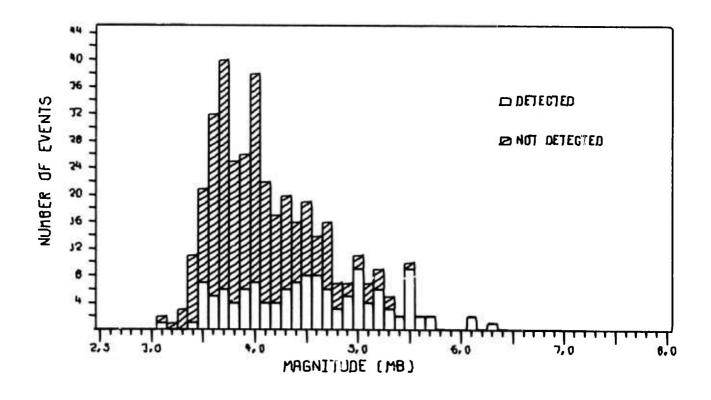


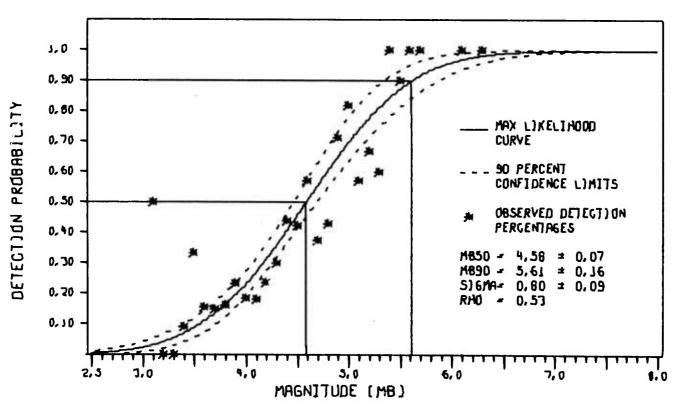
DETECTION STATISTICS FOR VLPE STATION 5 (FBK)



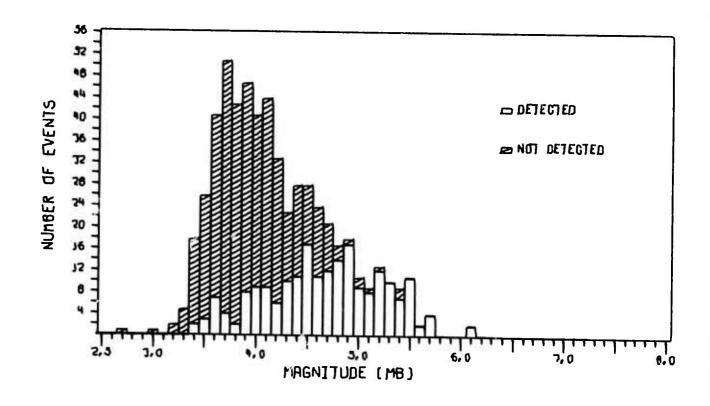


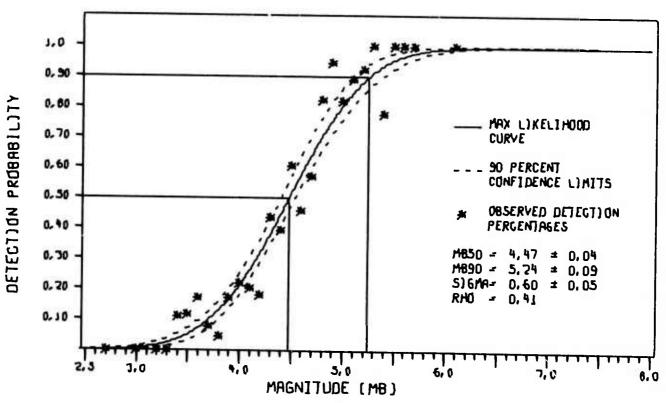
DETECTION STATISTICS FOR VLPE STATION 4 (TLO)



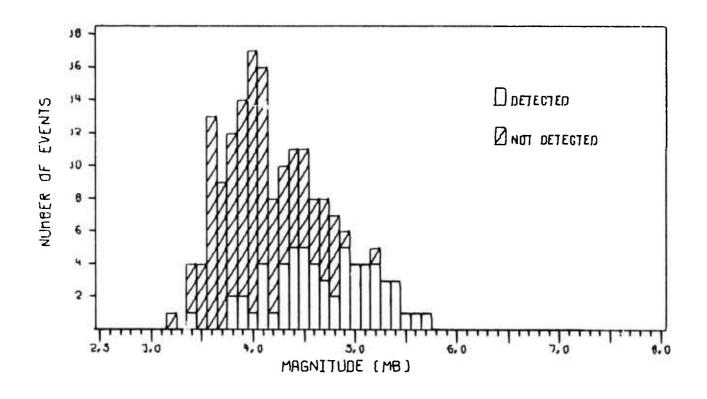


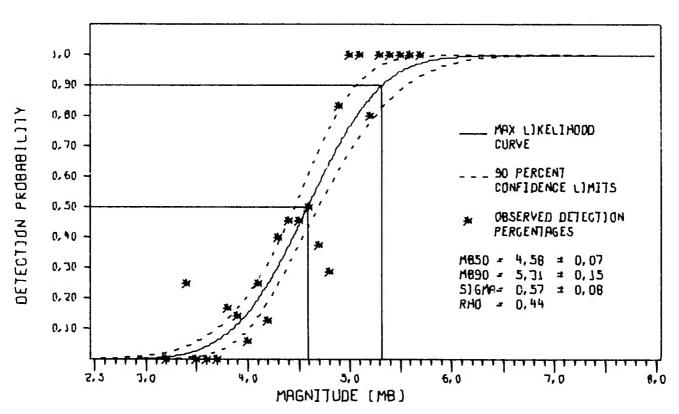
DETECTION STATISTICS FOR VLPE STATION 5 (EIL)



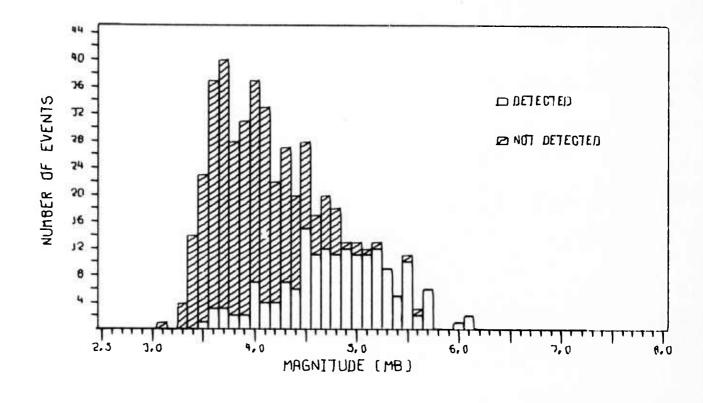


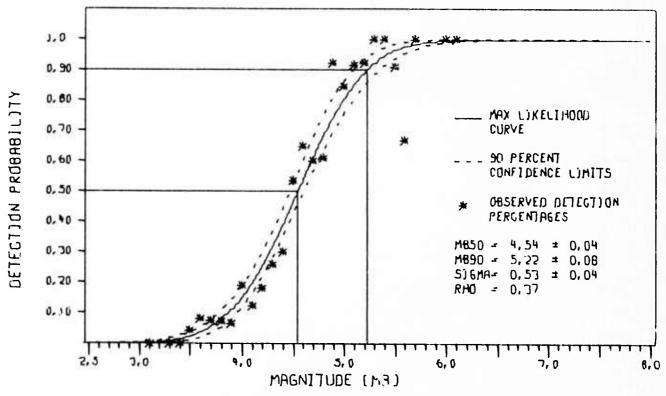
DETECTION STATISTICS FOR VLPF STATION 6 (KON)



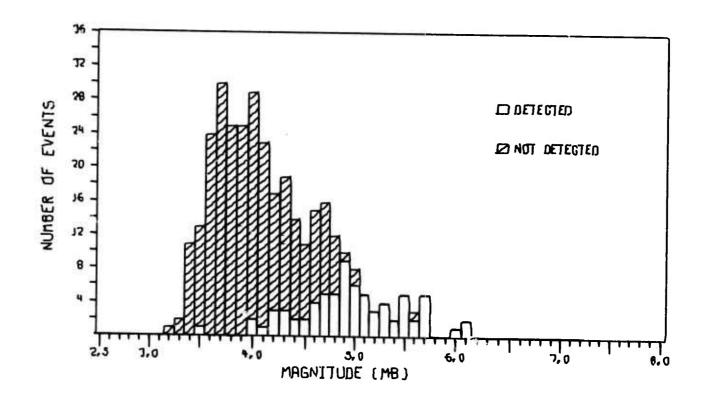


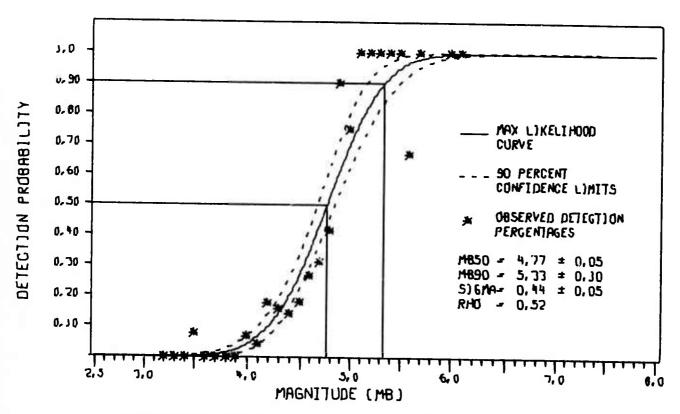
DETECTION STATISTICS FOR VLPE STATION 7 (OGD)



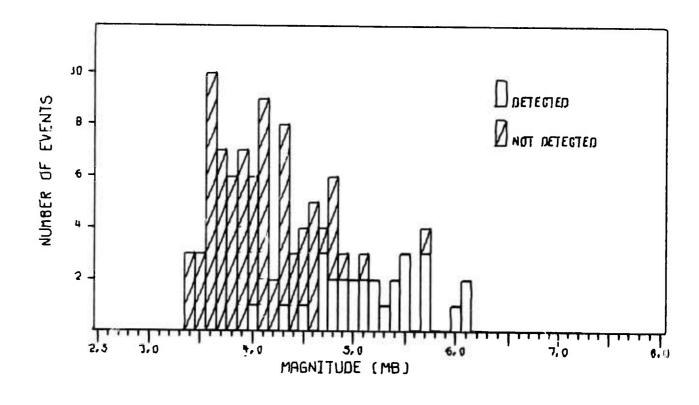


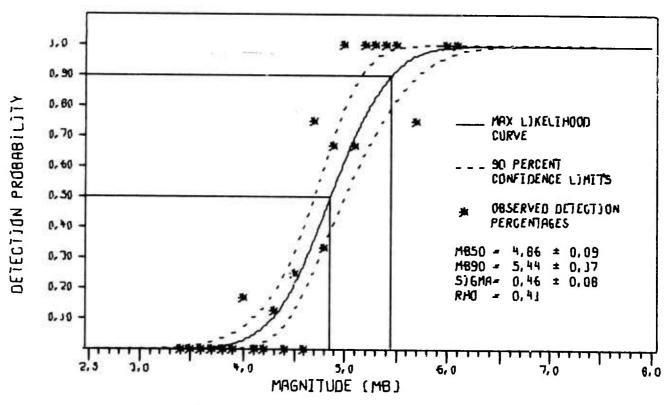
DETECTION STATISTICS FOR VLPE STATION 8 (KIP)



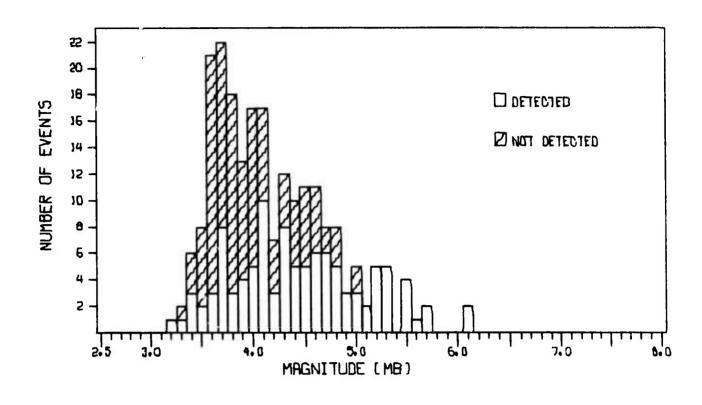


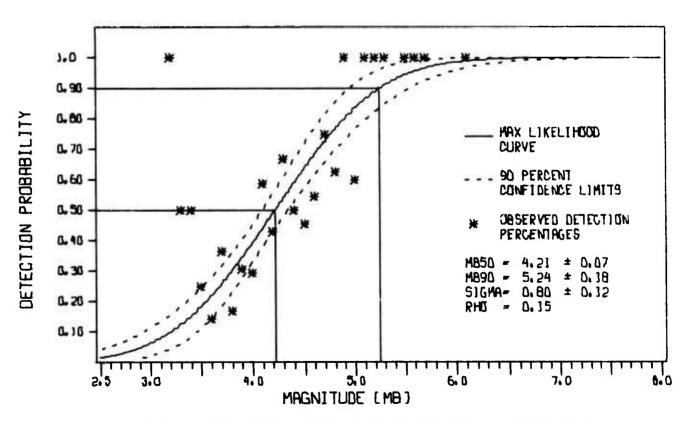
DETECTION STATISTICS FOR VLPE STATION 9 (ALQ)





DETECTION STATISTICS FOR VLPE STATION 10 (ZLP)





DETECTION STATISTICS FOR VLPE STATION 11 (MAT)